1 41/2

51G18

STUDENT WORKBOOK

MATERIALS QUALITY SPECIALIST COURSE

NEWARK PUBLIC LIBRARY

NOV 2 5 1985

U. S. GOVT. PUBS.
DEPOSITORY 378

CONSTRUCTION DRAWINGS

US ARMY ENGINEER SCHOOL - FORT BELVOIR, VIRGINIA

Date Printed: OCT. 1985

3.120:

READEX FICHE best copy available

US ARMY ENGINEER SCHOOL
DEPARTMENT OF MILITARY ENGINEERING
ROADS & AIRFIELDS BRANCH

Construction Drawings

Student's Name _____
Instructor _____
Class Number _____

Note: This workbook is devised as a very basic introduction to military construction drawing; it is not meant to be a complete course in drafting. As a 51G in a T.O.&E. unit, you will work closely with draftsmen (81B's) & surveyors (82B's) who will help you to become more familiar with construction drawings and drafting techniques. Use this workbook for familiarization purposes only - not for professional reference!!

The building of any structure is described by a set of related drawings and specifications that give the workmen a complete graphic description of the total project. We, in the military , commonly refer to these drawings as "Construction Drawings."

There are two basic categories of drawings:

1.

2.

Material Symbols:

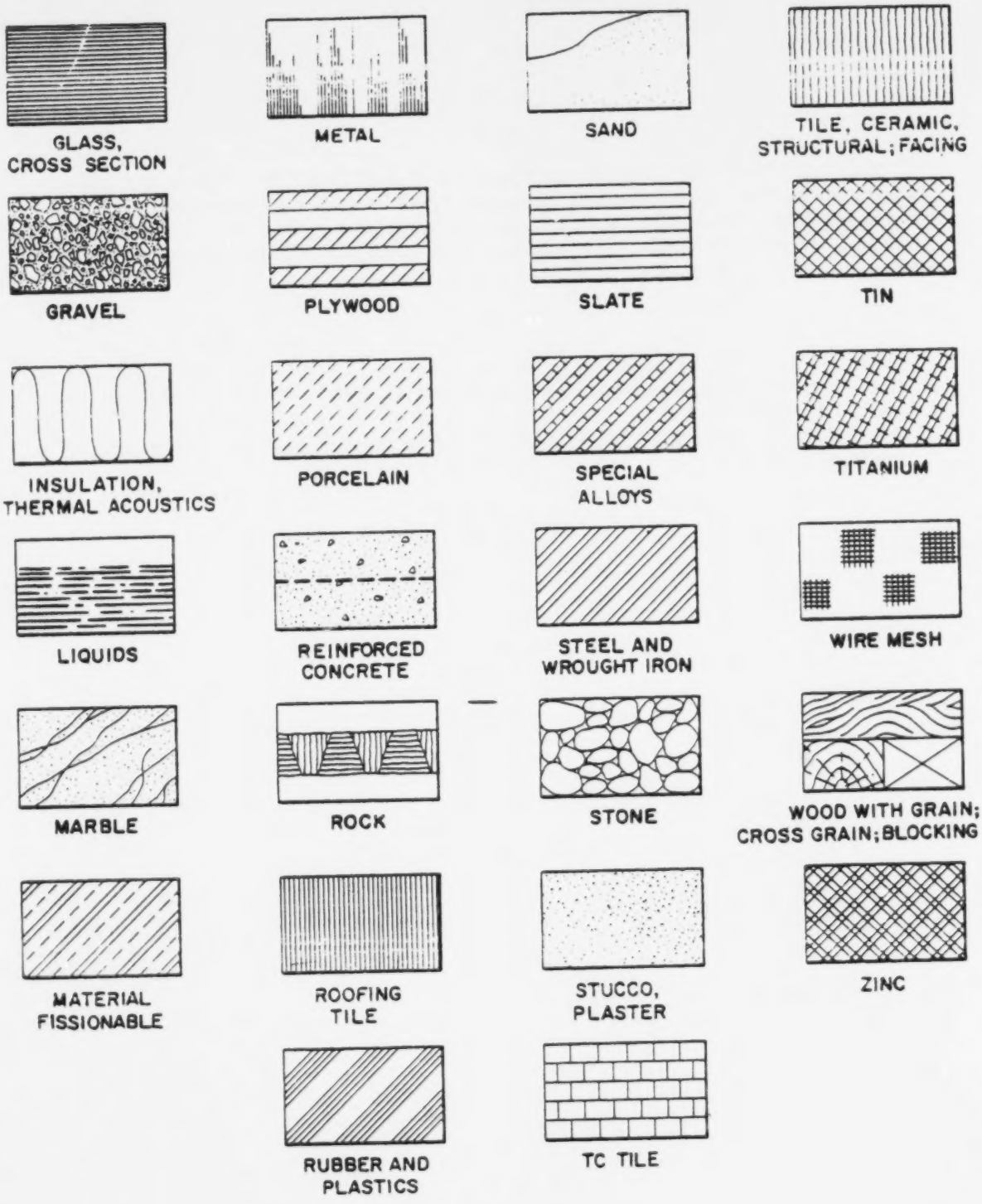

GLASS, CROSS SECTION
METAL
SAND
TILE, CERAMIC, STRUCTURAL; FACING
GRAVEL
PLYWOOD
SLATE
TIN
INSULATION, THERMAL ACOUSTICS
PORCELAIN
SPECIAL ALLOYS
TITANIUM
LIQUIDS
REINFORCED CONCRETE
STEEL AND WROUGHT IRON
WIRE MESH
MARBLE
ROCK
STONE
WOOD WITH GRAIN; CROSS GRAIN; BLOCKING
MATERIAL FISSIONABLE
ROOFING TILE
STUCCO, PLASTER
ZINC
RUBBER AND PLASTICS
TC TILE

Figure 1-1

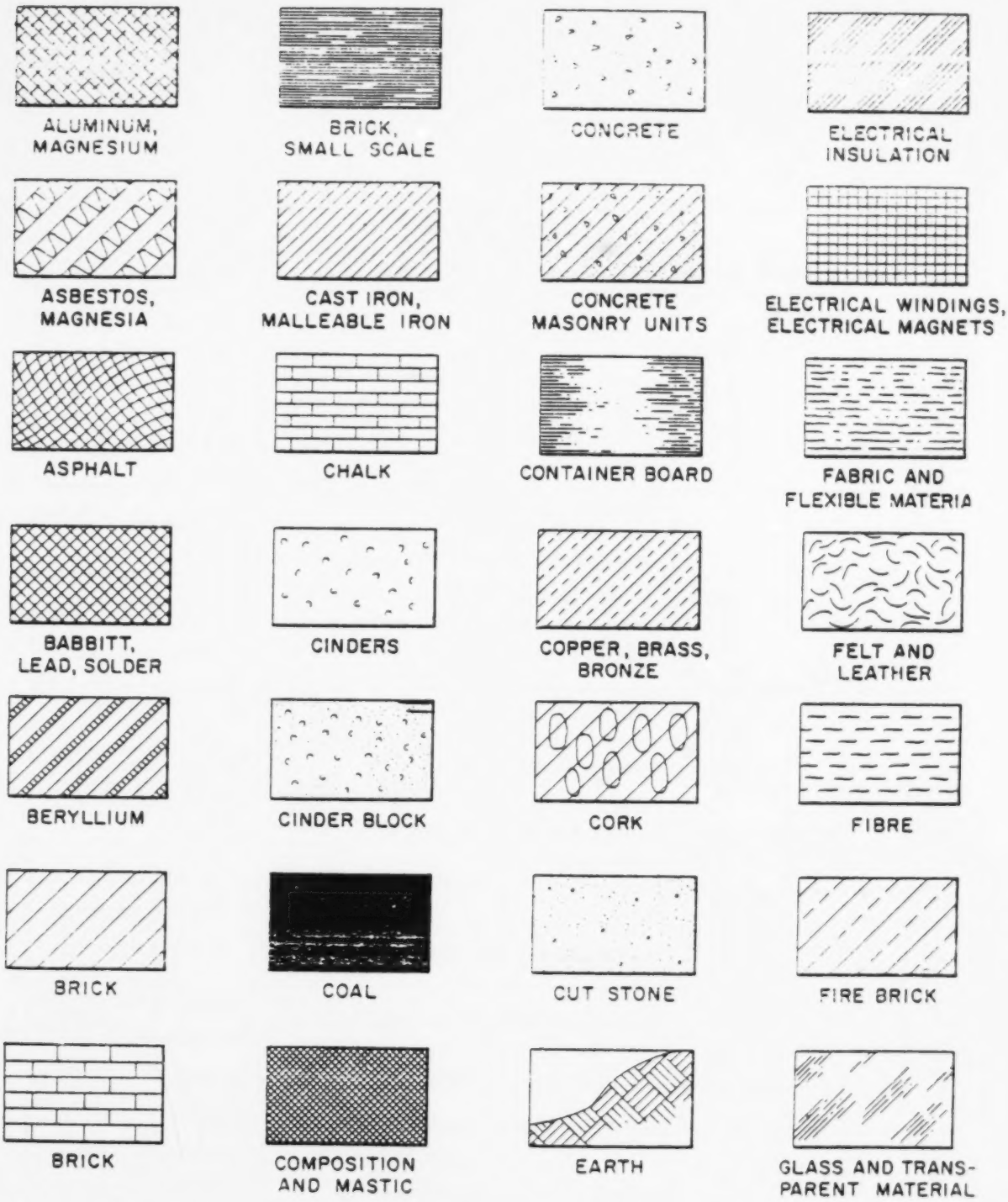


Figure 1-1 (cont'd)

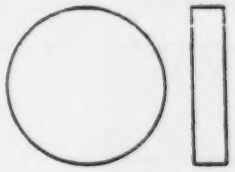
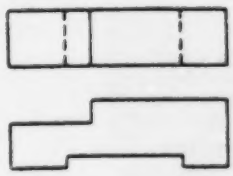
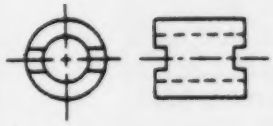
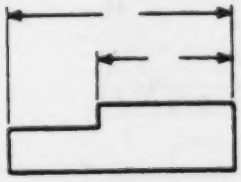
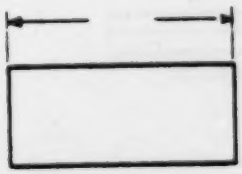
LINE CONVENTIONS			
NAME	CONVENTION	DESCRIPTION AND APPLICATION	EXAMPLE
		HEAVY UNBROKEN LINES USED TO INDICATE VISIBLE EDGES OF AN OBJECT	
		MEDIUM LINES WITH SHORT EVENLY SPACED DASHES USED TO INDICATE CONCEALED EDGES	
		THIN LINES MADE UP OF LONG AND SHORT DASHES ALTERNATELY SPACED AND CONSISTENT IN LENGTH USED TO INDICATE SYMMETRY ABOUT AN AXIS AND LOCATION OF CENTERS	
		THIN LINES TERMINATED WITH ARROWHEADS AT EACH END USED TO INDICATE DISTANCE MEASURED	
		THIN UNBROKEN LINES USED TO INDICATE EXTENT OF DIMENSIONS	

Figure 1-2

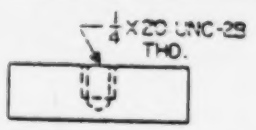
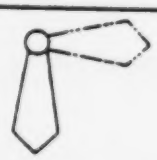
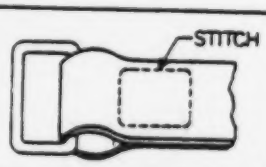
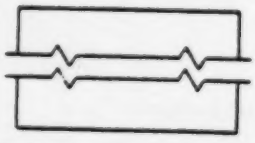
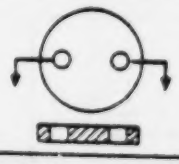
LINE CONVENTIONS			
NAME	CONVENTION	DESCRIPTION AND APPLICATION	EXAMPLE
		THIN LINE TERMINATED WITH ARROW-HEAD OR DOT AT ONE END USED TO INDICATE A PART, DIMENSION OR OTHER REFERENCE	
PHANTOM OR DATUM LINE		MEDIUM SERIES OF ONE LONG DASH AND TWO SHORT DASHES EVENLY SPACED ENDING WITH LONG DASH USED TO INDICATE ALTERNATE POSITION OF PARTS, REPEATED DETAIL OR TO INDICATE A DATUM PLANE	
STITCH LINE		MEDIUM LINE OF SHORT DASHES EVENLY SPACED AND LABELED USED TO INDICATE STITCHING OR SEWING	
	(WOOD)	THIN SOLID RULED LINE WITH FREE-HAND ZIG-ZAGS USED TO REDUCE SIZE OF DRAWING REQUIRED TO DELINEATE OBJECT AND REDUCE DETAIL	
		THICK SOLID FREE-HAND LINES USED TO INDICATE A SHORT BREAK	
CUTTING OR VIEWING PLANE VIEWING PLANE OPTIONAL		THICK SOLID LINES WITH ARROWHEAD TO INDICATE DIRECTION IN WHICH SECTION OR PLANE IS VIEWED OR TAKEN	
CUTTING PLANE FOR COMPLEX OR OFFSET VIEWS		THICK SHORT DASHES USED TO SHOW OFFSET WITH ARROW-HEADS TO SHOW DIRECTION VIEWED	

Figure 1-2 (cont'd)

Three major drafting views

Orthographic:

Isometric:

Oblique:

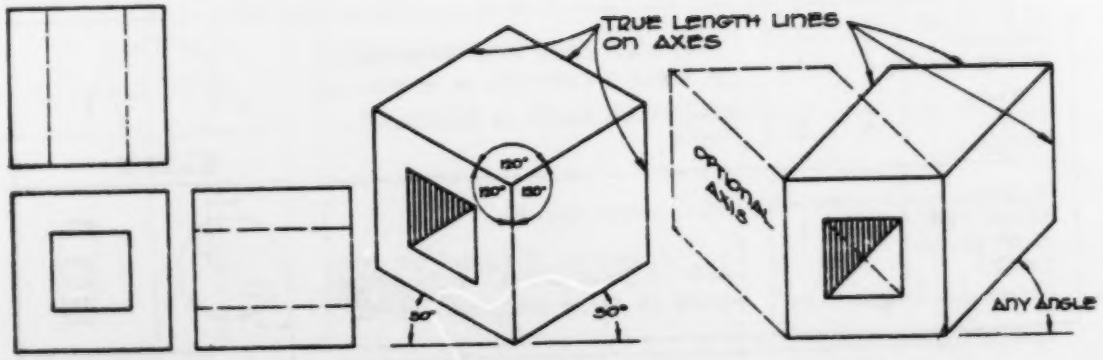


Figure 1-3

NOTES:

Orthographic Concept

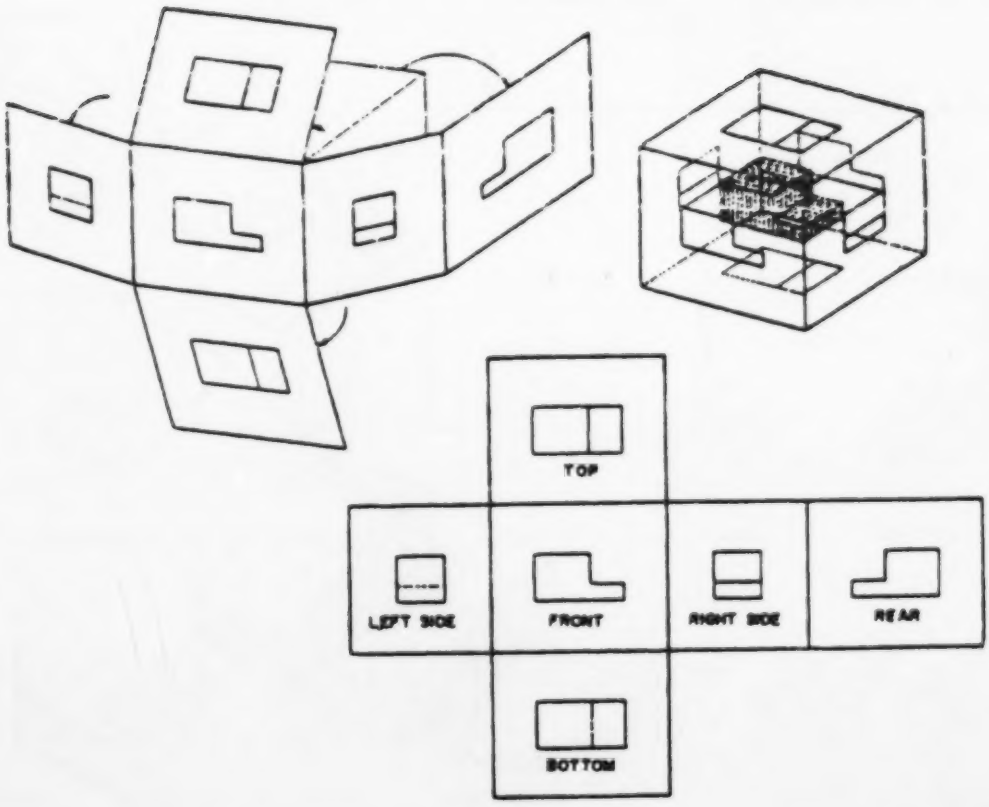


Figure 1-4

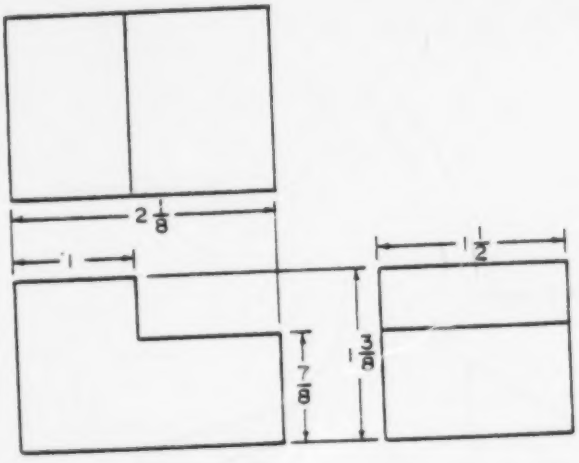


Figure 1-5

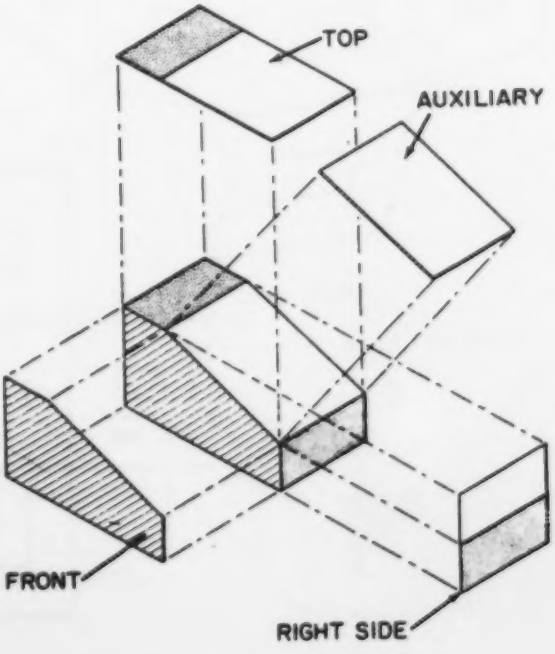
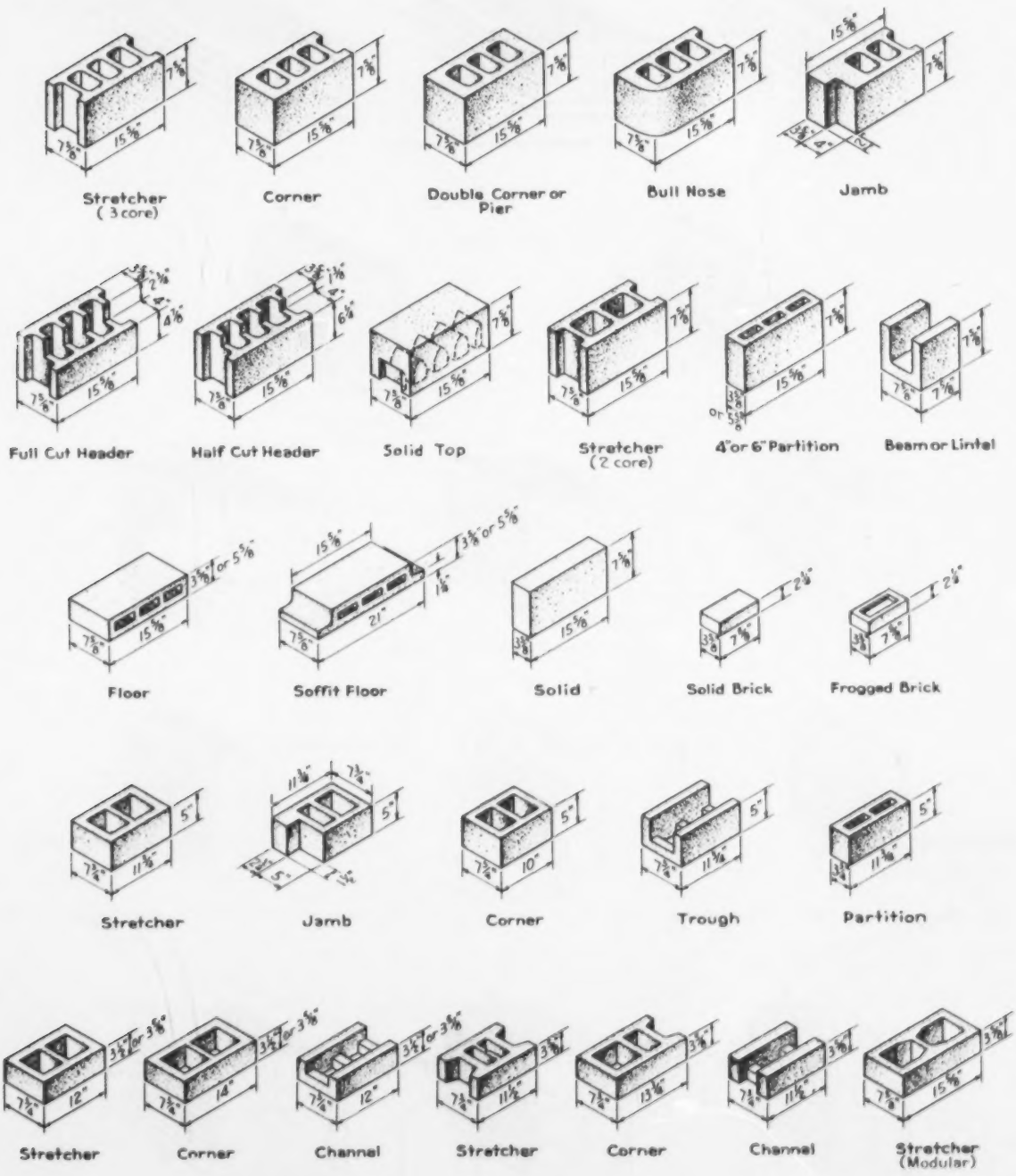
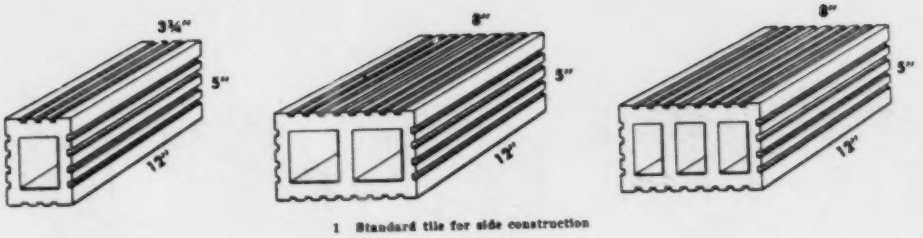


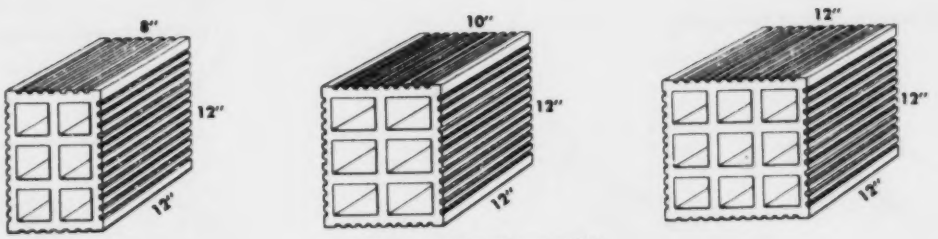
Figure 1-6



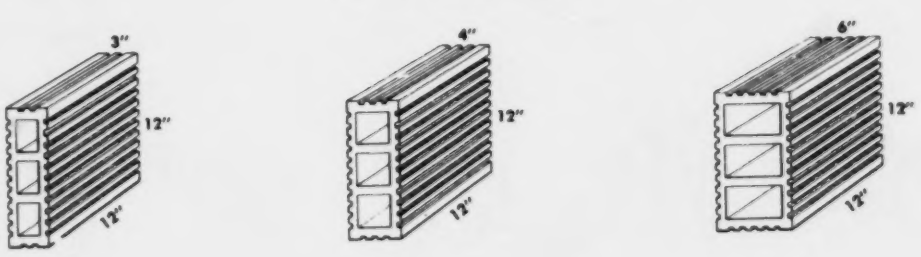
Example of Isometric drawings Figure 1-7

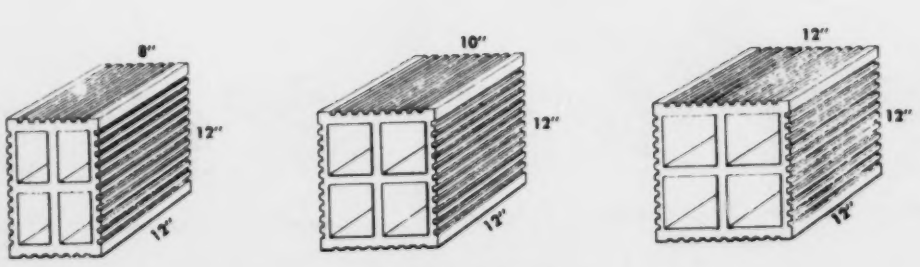


1 Standard tile for side construction



2 Standard tile for end construction





3 Standard tile for partitions

Example of Oblique drawings Figure 1-8

Perspective Views:

One Point

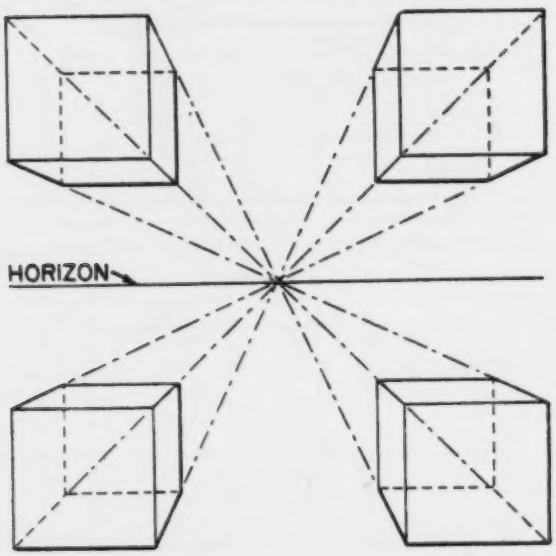


Figure 1-9

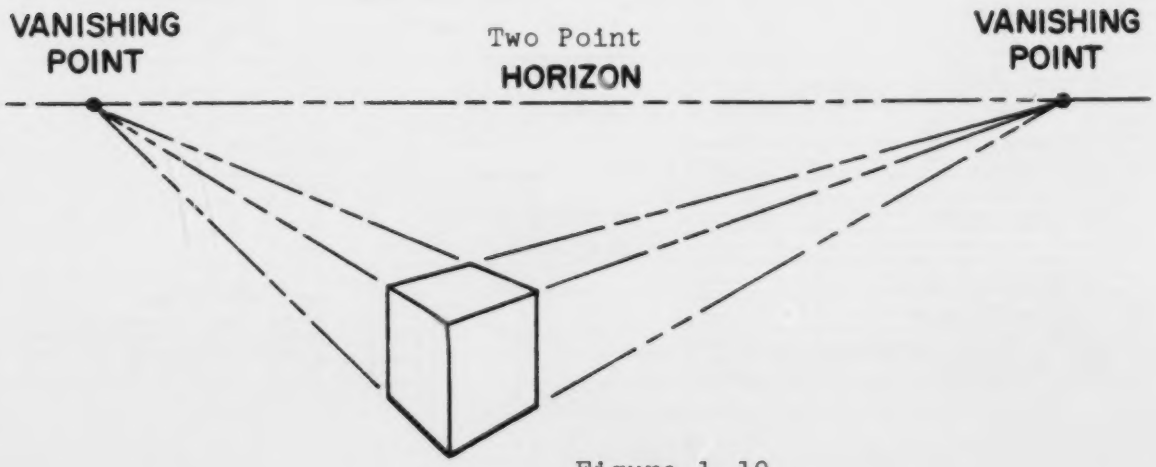
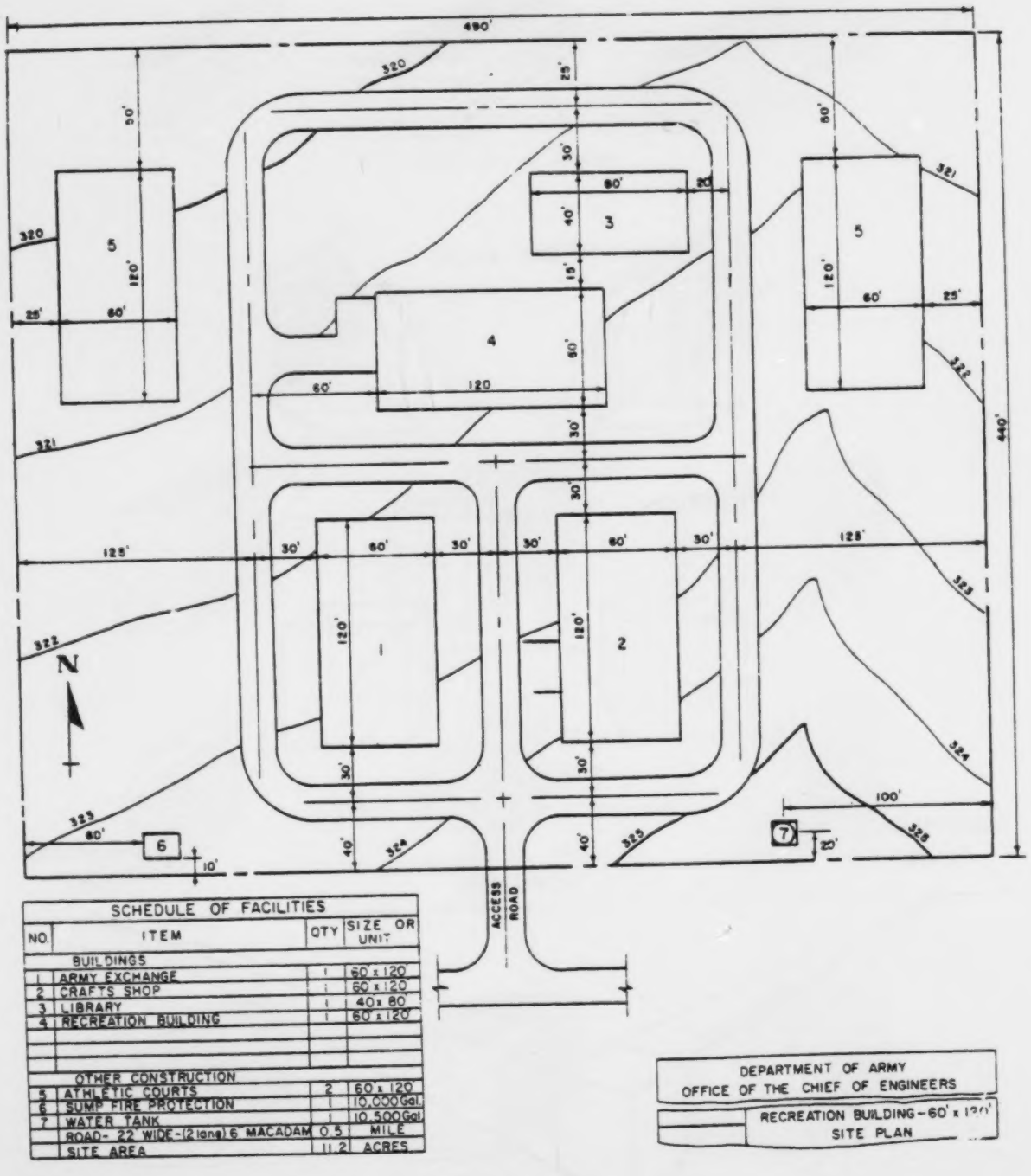


Figure 1-10

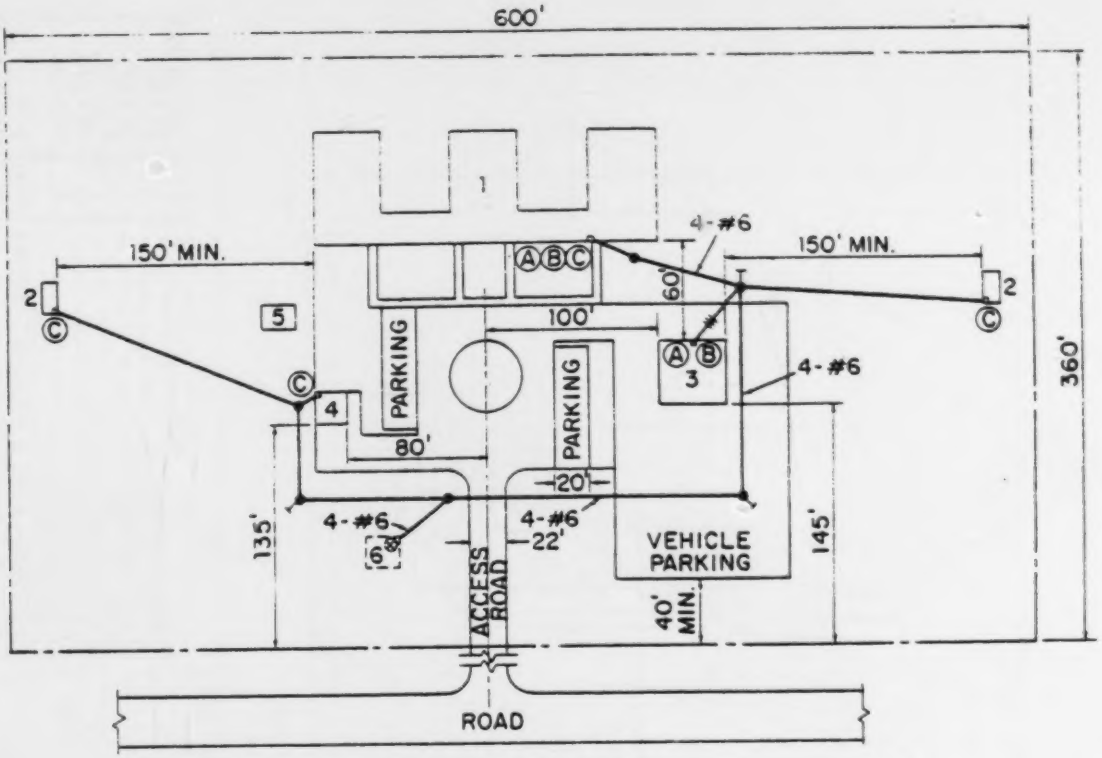


SCHEDULE OF FACILITIES			
NO.	ITEM	QTY	SIZE OR UNIT
	BUILDINGS		
1	ARMY EXCHANGE	1	60 x 120
2	CRAFTS SHOP	1	60 x 120
3	LIBRARY	1	40 x 80
4	RECREATION BUILDING	1	60 x 120
	OTHER CONSTRUCTION		
5	ATHLETIC COURTS	2	60 x 120
6	SUMP FIRE PROTECTION	1	10,000 Gal.
7	WATER TANK	1	10,500 Gal.
	ROAD - 22' WIDE - (2 lane) 6" MACADAM	0.5	MILE
	SITE AREA	11.2	ACRES

DEPARTMENT OF ARMY
OFFICE OF THE CHIEF OF ENGINEERS

RECREATION BUILDING - 60' x 120'
SITE PLAN

Figure 1-11



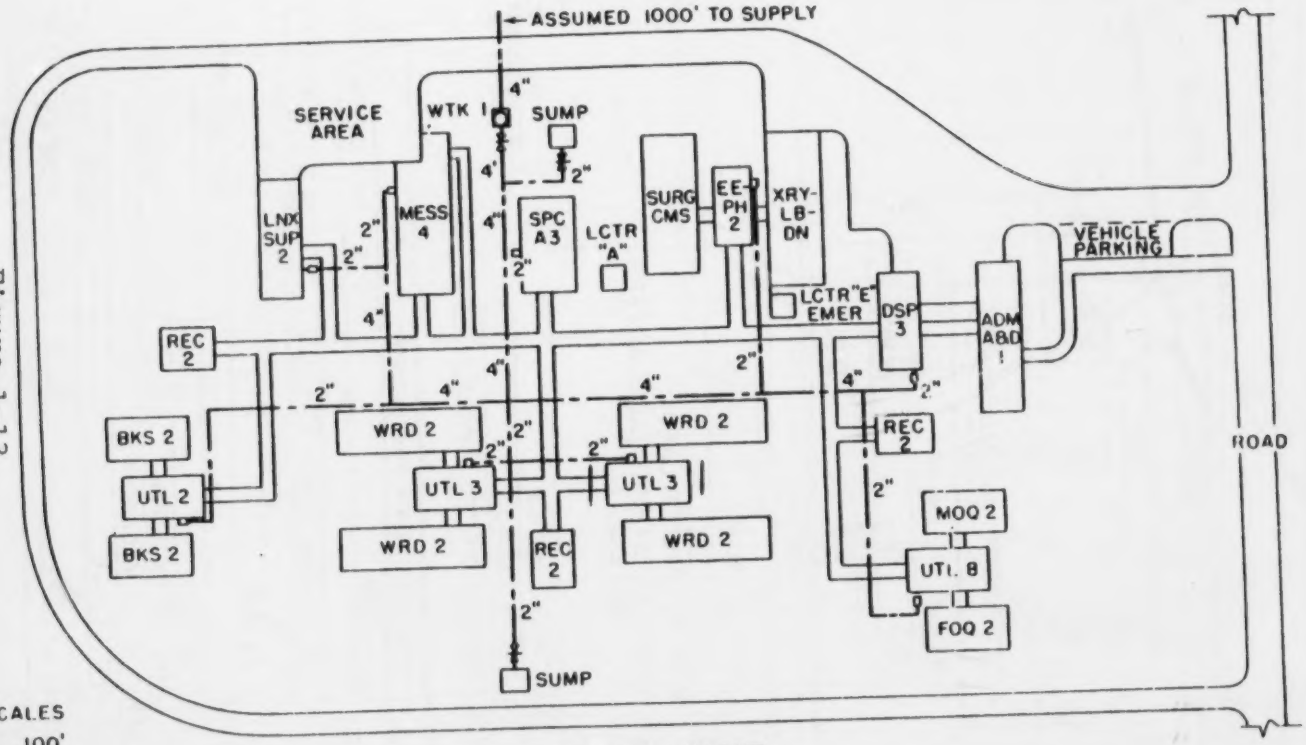
SITE & UTILITY LAYOUT
10,000 S.F. ADMINISTRATION HEADQUARTERS
SCALE NO. 13

ELECTRICAL NOTES
CONNECTED LOAD
10,000 S.F. ADMINISTRATION HQ —— 11.31 KW

0 50' 100'
NO. 13

SCHEDULE OF FACILITIES			
NO.	ITEM	QTY	SIZE OR UNIT
	BUILDINGS		
1	ADMINISTRATION - HQ BUILDING - "E" SHAPE	1	10,000 S.F.
2	LATRINE - PIT TYPE	2	10' X 20'
3	SHOP - MOTOR REPAIR	1	40' X 40'
4	STOREHOUSE	1	20' X 20'
	OTHER CONSTRUCTION		
	ROAD - DBL LANE - 6" MACADAM	0.02	MILE
	ROAD - 9' SERVICE - 4" MACADAM		
5	SUMP - FIRE PROTECTION	1	10,000 GAL
	VEHICLE PARKING - (HARDSTANDS) 4" MACADAM	1	1,000 S.Y.
	SITE AREA	4.9	ACRES
6	GENERATOR BLDG. (IF REQ'D)		

Figure 1-12



GRAPHIC SCALES
0 50' 100'
NO. 13

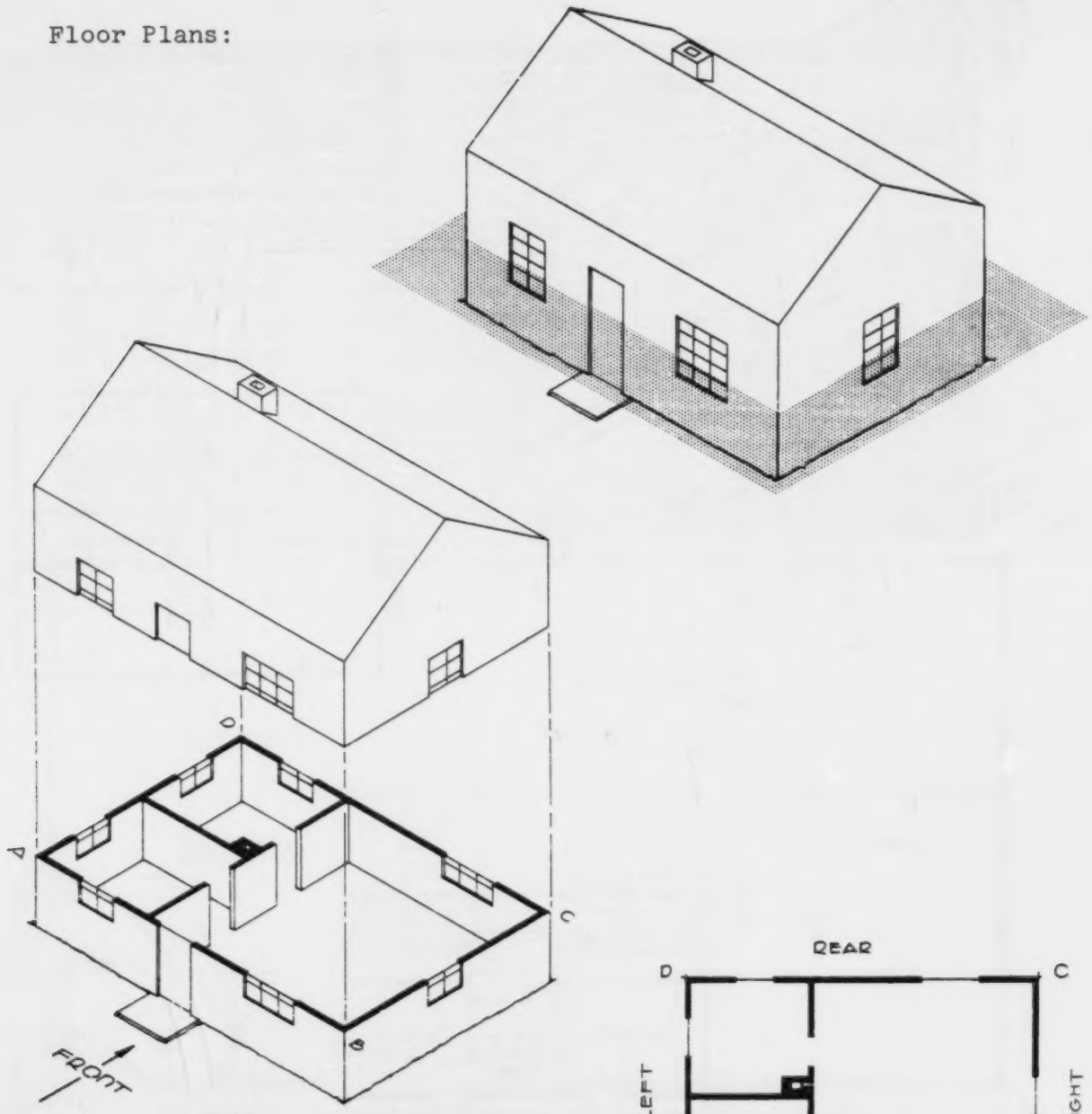
UTILITY LAYOUT
SCALE NO. 13

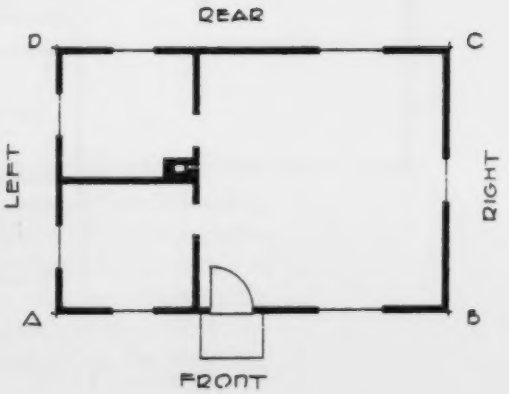
Figure 1-13

SCHEDULE OF FACILITIES

ABBR	ITEM	QTY	SIZE OR UNIT
	BUILDINGS		
ADM-ABD 1	ADMINISTRATION, ADMISSION & DISPOSITION-1	1	30'X 110'
BKS 2	BARRACKS-2	2	30'X 60'
DSP 3	DISPENSARY-3	1	30'X 70'
EE-PH 2	EE & PHARMACY-2	1	30'X 60'
LNX-SUP 2	LINEN EXCHANGE & SUPPLY-2	1	30'X 90'
MESS 4	MESS BUILDING-4	1	4400 SF
FOQ 2	OFFICERS' QUARTERS-FEMALE-2	1	30'X60'
MOQ 2	OFFICERS' QUARTERS-MALE-2	1	30'X 60'
REC 2	RECREATION BUILDING-2	3	30'X 40'
SPC A 3	SPECIAL SERVICES BUILDING--SPC-A3	1	40'X 70'
SURG-CMS	SURGERY--CENTRALIZED MATERIEL	1	40'X 100'
UTL 2	UTILITY BUILDING-2	1	30'X 60'
UTL 3	UTILITY BUILDING-3	2	30'X 60'
UTL 8	UTILITY BUILDING-8	1	30'X 60'
	WALKS-COVERED	1	8'X 1435'
WRD 2	WARD BUILDING-2-ACUTE	4	30'X 100'
XRY-LB-DN	X-RAY-LAB-DENTAL	1	40'X 110'
	OTHER CONSTRUCTION		
	ROAD-DOUBLE LANE-6"MACADAM,1" ASPHALT	0.34	MILE
SUMP	SUMP-FIRE PROTECTION	2	10,000 GAL
	HARDSTANDS-4" MACADAM	7.1	1000 SY
	SITE AREA	10.1	ACRES
WTK 1	WATER TANK	1	4,000 GAL
LCTR	LOAD CENTER	1	---
LCTR-EMER	LOAD CENTER--EMERGENCY	1	---

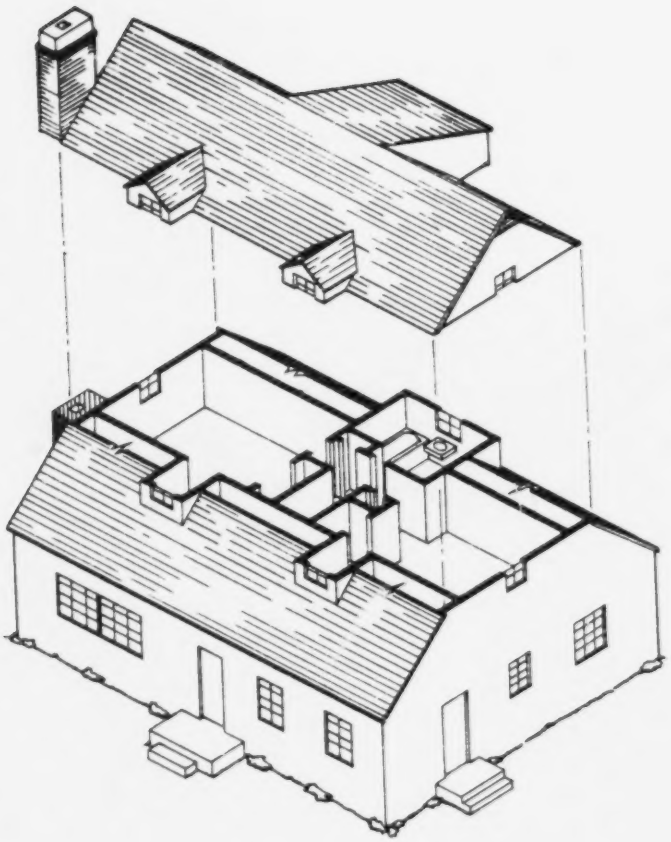
Floor Plans:

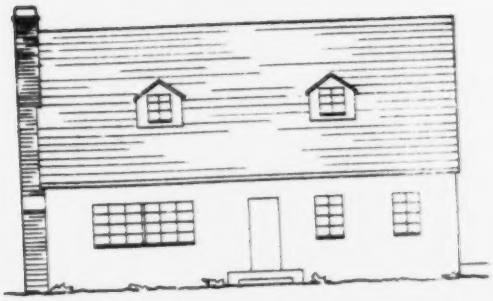




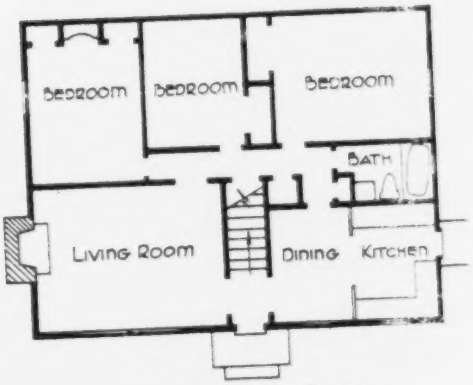
FLOOR PLAN

Figure 1-14

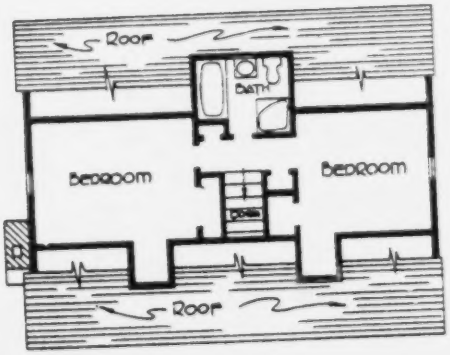




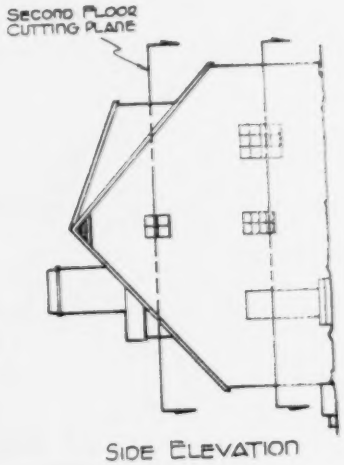
FRONT ELEVATION



FIRST FLOOR PLAN



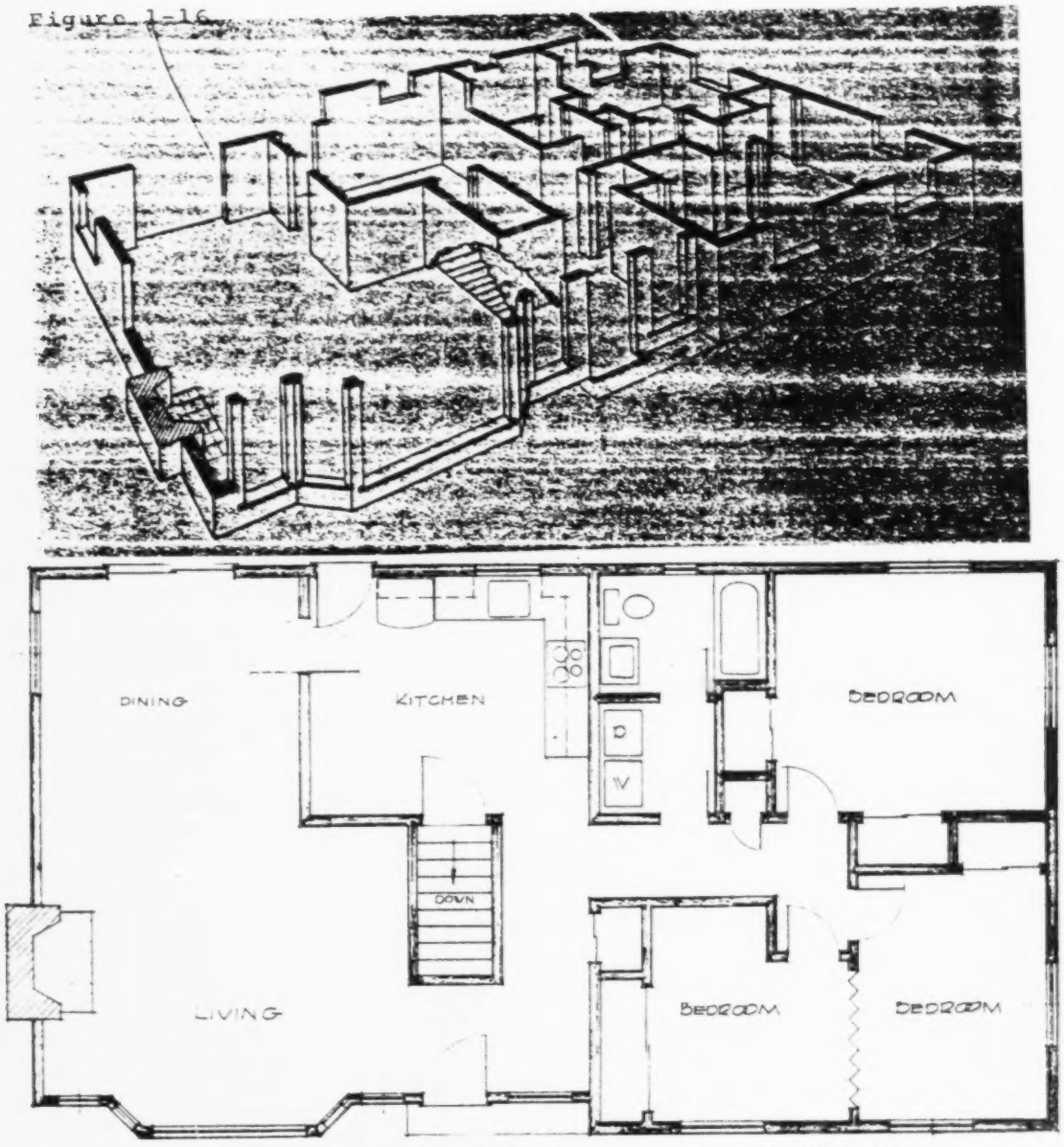
SECOND FLOOR PLAN



SIDE ELEVATION

Figure 1-15

Figure 1-16



Another practice found on architectural drawings is the elimination of hidden lines on major views. Broken lines represent hidden surfaces on orthographic views. But if all the hidden surfaces found within a building were shown on the elevations, the maze of broken lines would merely be confusing. Except for a special reason, such as the outline of a foundation below ground or the finish floor level within the building, hidden lines are avoided on elevation views.

Elevation Drawings:

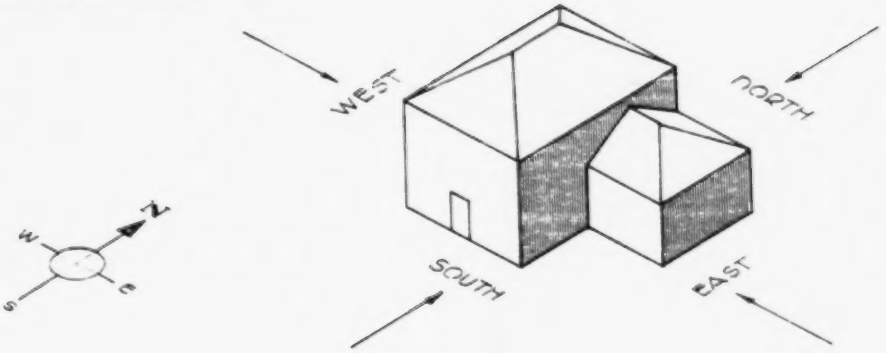
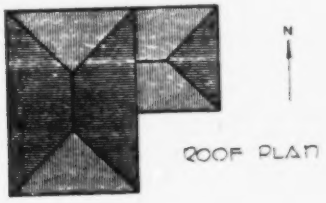
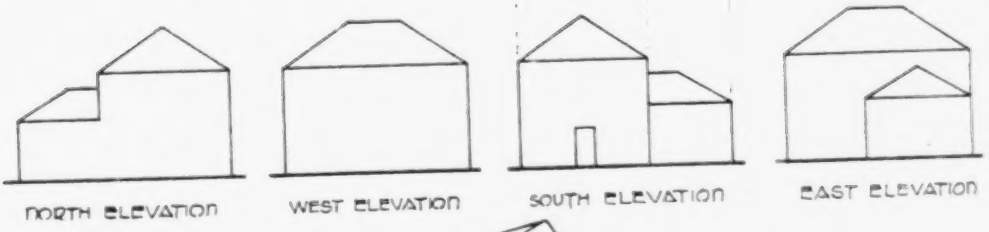


Figure 1-17





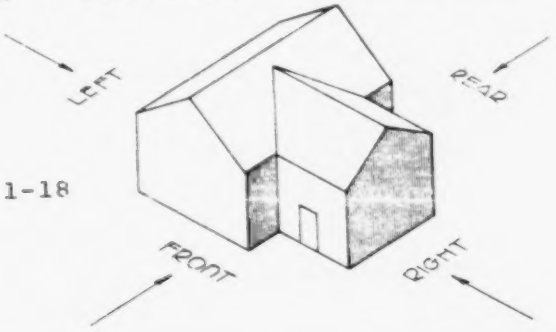
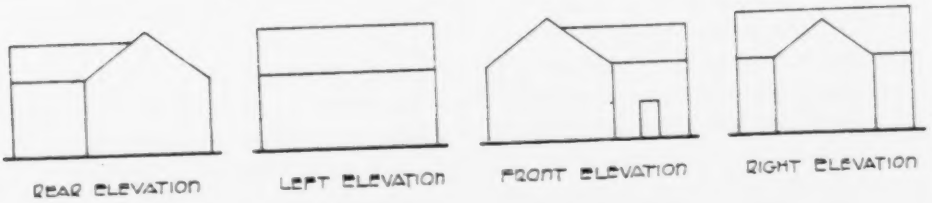


Figure 1-18



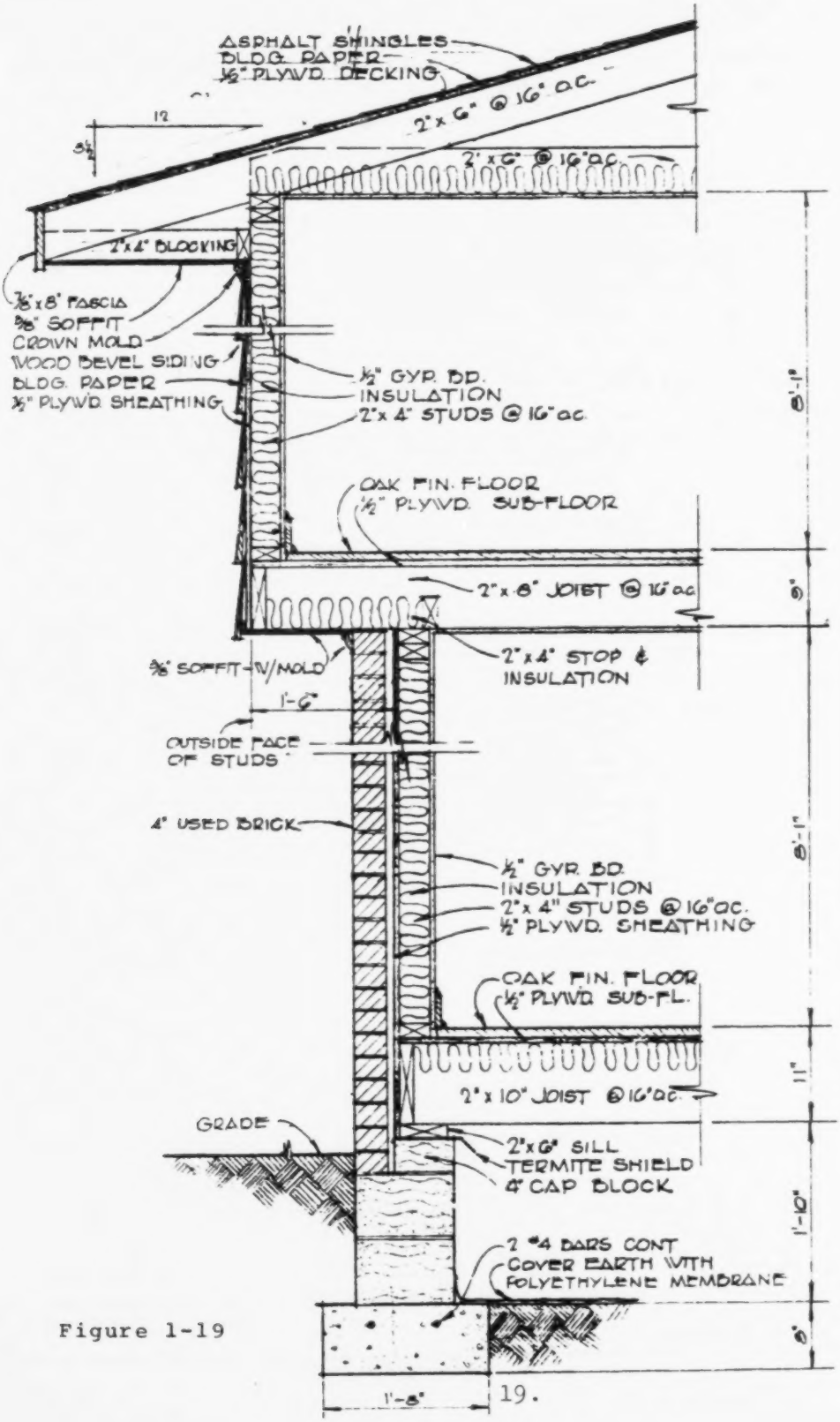

ASPHALT SHINGLES
BLDG. PAPER
½" PLYWD. DECKING
2"x 6" @ 16" o.c.
12
5½
2"x 6" @ 16"o.c.
2"x 4" BLOCKING
⅜"x 8" FASCIA
⅜" SOFFIT
CROWN MOLD
WOOD BEVEL SIDING
BLDG. PAPER
½" PLYWD. SHEATHING
½" GYP. BD.
INSULATION
2"x 4" STUDS @ 16" oc.
8'-1"
OAK FIN. FLOOR
½" PLYWD. SUB-FLOOR
2"x 8" JOIST @ 16" oc
9"
⅜" SOFFIT W/MOLD
2"x 4" STOP &
INSULATION
1'-6"
OUTSIDE FACE
OF STUDS
4" USED BRICK
½" GYP. BD.
INSULATION
2"x 4" STUDS @ 16"oc.
½" PLYWD. SHEATHING
8'-1"
OAK FIN. FLOOR
½" PLYWD. SUB-FL.
11"
2"x 10" JOIST @ 16"oc.
GRADE
2"x 6" SILL
TERMITE SHIELD
4" CAP BLOCK
1'-10"
2 #4 BARS CONT
COVER EARTH WITH
POLYETHYLENE MEMBRANE
8"
1'-8"

Figure 1-19

VA Form VB4-1852
FHA Form 2005
Jan. 1956

For separate register of carbon copies, form may be separated along above fold. Staple completed sheets together in original order.

Form approved.
Budget Bureau No. 63-R055.10.

☒ Proposed Construction

☐ Under Construction

DESCRIPTION OF MATERIALS

No. _____ (To be inserted by FHA or VA)

Property address 1230 Pinedale Avenue City Atlanta State Georgia

Mortgagor or Sponsor First National Bank (Name) Atlanta, Georgia (Address)

Contractor or Builder Ace Construction Company (Name) Atlanta, Georgia (Address)

INSTRUCTIONS

1. For additional information on how this form is to be submitted, number of copies, etc., see the instructions applicable to the FHA Application for Mortgage Insurance or VA Request for Determination of Reasonable Value, as the case may be.
2. Describe all materials and equipment to be used, whether or not shown on the drawings, by marking an X in each appropriate check-box and entering the information called for in each space. If space is inadequate, enter "See rmks." and describe under item 27 or on an attached sheet.
3. Work not specifically described or shown will not be considered unless required, when the minimum acceptable will be assumed. Work exceeding minimum requirements cannot be considered unless specifically described.
4. Include no alternates, "or equal" phrases, or contradictory items. (Consideration of a request for acceptance of substitute materials or equipment is not thereby precluded.)
5. Include signatures required at the end of this form.
6. The construction shall be completed in compliance with the related drawings and specifications, as amended during processing. The specifications include this Description of Materials and the applicable Minimum Construction Requirements.

1. EXCAVATION:
Bearing soil, type Sand Clay

2. FOUNDATIONS:
Footings: Concrete mix (1:3:5) 2500# Reinforcing 2 - #4 bars
Foundation wall: Material Concrete Block Reinforcing
Interior foundation wall: Material Party foundation wall
Columns: Material and size Piers: Material and reinforcing Concrete Block
Girders: Material and sizes SYP 6" x 10" Sills: Material SYP 2" x 6" - Celcure
Basement entrance areaway Window areaways
Waterproofing Footing drains
Termite protection G.I. Termite Shields, Soil Treatment
Basementless space: Ground cover Polyethylene Membrane Insulation 4" Rock Wool Foundation vents 4-8"x16" Cast Iron
Special foundations

3. CHIMNEYS:
Material Brick Prefabricated (*make and size*) Fireplace flue size 13" x 13"
Flue lining: Material Vit. Terra Cotta Heater flue size 4" Dia. Water heater Transite 3" Dia.
Vents (*material and size*): Gas or oil heater Transite 4" Dia.

4. FIREPLACES:
Type: ☒ Solid fuel; ☐ gas-burning; ☐ circulator (*make and size*) Ash dump and clean-out None
Fireplace: Facing Brick; lining Fire brick; hearth Brick; mantel None

5. EXTERIOR WALLS:
Wood frame: Grade and species Studs: Douglas Fir #2 Other: SYP #2 DTM. ☐ Corner bracing. Building paper or felt
Sheathing Plywood; thickness 1/2"; width 4'-0"; ☒ solid; ☐ spaced ___" o. c.; ☐ diagonal;
Siding Redwood; grade Heart; type Bevel; size 10"; exposure 9"; fastening Alum. Nails
Shingles; grade; type; size; exposure "; fastening
Stucco; thickness ". Lath; weight lb.
Masonry veneer Brick, used Sills Brick Lintels 4" x 3" x 4" L.
Masonry: Facing; backing; thickness ". Bonding
Door sills Window sills Lintels
Interior surfaces: Dampproofing, coats of; furring
Exterior painting: Material Exterior Latex; number of coats 3
Gable wall construction: ☒ Same as main walls; ☐ other

6. FLOOR FRAMING:
Joists: Wood, grade and species #2 SYP; other; bridging #2 SYP; anchors 1/2" Bolts-6"-0" O.C.
Concrete slab: ☐ Basement floor; ☒ first floor; ☒ ground supported; ☐ self-supporting; mix 1:2:4 2500#; thickness 4";
reinforcing 6 6/10 10 wire mesh; insulation; membrane Polyethylene
Fill under slab: Material Gravel; thickness 6".

7. SUBFLOORING: (*Describe underflooring for special floors under item 21.*)
Material: Grade and species Plywood, C-D grade; size 4'-0" x 8'0"; type Interior
Laid: ☒ First floor; ☒ second floor; ☐ attic sq. ft.; ☐ diagonal; ☒ right angles.

8. FINISH FLOORING: (*Wood only. Describe other finish flooring under item 21.*)

Location	Rooms	Grade	Species	Thickness	Width	Bldg. Paper	Finish
First floor	LR, Den, DR, Hall	Select	Oak	25/32"	2¼	Yes	Fill, seal, varnish
Second floor	BR.1,2,3,4, Hall	"	Oak	25/32"	2¼	"	" " "
Attic floor	sq. ft.						

9. PARTITION FRAMING:
Studs: Wood, grade and species #2, D. Fir Size and spacing 2x4, 16" O.C. Other

10. CEILING FRAMING:
Joists: Wood, grade and species # SYP Other Bridging X-Type

11. ROOF FRAMING:
Rafters: Wood, grade and species #SYP Roof trusses (see detail): Grade and species

12. ROOFING:
Sheathing: Grade and species "Plyscore" -D. Fir ; size 3/8" ; type Ext. C-D ; ☒ solid; ☐ spaced ____" o.c.
Roofing Asphalt Shingles ; grade B ; weight or thickness 260# ; size 12" x36" ; fastening G.I. Nails
Stain or paint Underlay #15 Felt
Built-up roofing ; number of plies ; surfacing material
Flashing: Material G.I. ; gage or weight 26 Ga. ; ☐ gravel stops; ☐ snow guards

13. GUTTERS AND DOWNSPOUTS:
Gutters: Material G.I. ; gage or weight 24 ; size 4" ; shape Ogee
Downspouts: Material G. I. ; gage or weight 24 ; size 3 ; shape Rectangular ; number 4
Downspouts connected to: ☐ Storm sewer; ☐ sanitary sewer; ☐ dry-well. ☒ Splash blocks: Material and size Conc. 12" x 18"

14. LATH AND PLASTER:
Lath ☐ walls, ☐ ceilings: Material ; weight or thickness Plaster: Coats ; finish
Dry-wall ☒ walls, ☒ ceilings: Material Gypsum ; thickness ⅜" ; finish Latex ; joint treatment 3 coat Tape & Cem.
Metal corner beads

15. DECORATING: *(Paint, wallpaper, etc.)*

Rooms	Wall Finish Material and Application	Ceiling Finish Material and Application
Kitchen	Alkyd semi-gloss, 3 coats	same
Baths	Alkyd semi-gloss, 3 coats	same
Others	Latex Base, 2 coats	same

16. INTERIOR DOORS AND TRIM:
Doors: Type Panel, Sliding ; material Wood, Pine ; thickness 1-3/8"
Door trim: Type Ogee ; material Fir Base: Type Ogee ; material Fir ; size 3/4" x4½"
Finish: Doors Paint - Alkyd Semi-gloss ; trim Same as walls
Other trim (*stem, type and location*) Book shelves, cabinet in den, stain and two coats flat varnish

17. WINDOWS:
Windows: Type D. H. ; make Anderson ; material Wood, W. Pine ; sash thickness 1-3/8"
Glass: Grade SS ; ☐ sash weights; ☐ balances, type Spring ; head flashing G. I.
Trim: Type Ogee ; material Fir Paint Same as walls ; number coats 3
Weatherstripping: Type Friction ; material Brass Storm sash, number
Screens: ☒ Full; ☐ half; type Aluminum ; number 24 ; screen cloth material Aluminum
Basement windows: Type ; material ; ☐ screens, number ; ☐ Storm sash, number
Special windows

18. ENTRANCES AND EXTERIOR DETAIL: Curtis #1719
Main entrance door: Material W. Pine ; width 3'-0" ; thickness 1-3/4" Frame: Material Pine ; thickness 5/4"
Other entrance doors: Material Fir, Alum. ; width 2'-8 ; thickness 1-3/4" Frame: Material Fir ; thickness 5/4"
Head flashing G.I. Weatherstripping: Type Brass ; saddles Oak, Alum.
Screen doors: Thickness 5/4" ; number 1 ; screen cloth material Alum. Storm doors: Thickness ____" ; number
Combination storm and screen doors: Thickness ____" ; number ; screen cloth material
Shutters: ☐ Hinged, ☒ fixed Railings Louvers Wood - Triangular
Exterior millwork: Grade and species B.D. Fir Paint Ext. Latex ; number coats 3
(See Elev.) Sliding Glass Door, 8" - 0" wide/tempered glass

19. CABINETS AND INTERIOR DETAIL:
Kitchen cabinets, wall units: Material Ponderosa Pine ; lineal feet of shelves 34"-0" ; shelf width 12"
Base units. Material Ponderosa Pine ; counter top Formica ; edging Formica
Back and end splash Formica Finish of cabinets Stain and Flat Varnish ; number coats 3
Medicine cabinets: Make Miami-Carey 14" x 20" ; model White
Other cabinets and built-in furniture Shelves and Cabinets in Den

20. STAIRS:

Stair	Treads		Risers		Stringers		Handrail		Balusters	
	Material	Thickness	Material	Thickness	Material	Size	Material	Size	Material	Size
Basement										
Main	Oak	5/4"	SYP	3/4"	SYP	2 x 12	Birch	3"	Birch	1½x1½x28"
Attic										

Disappearing: Make and model number "Precision" Deluxe, No. 89 - 30" x 54" R.O.

21. SPECIAL FLOORS AND WAINSCOT:

	Location	Material, Color, Pattern, Size, Gage, Etc.	Thresholds	Base	Underfloor
Floors	Kitchen	Vinyl Tile 3/32" x 9" x 9"	Alum.	W.P. Underlay Plywood Ext	
	Bath	Ceramic Tile	Marble	Cer. Tile	Concrete

	Location	Material, Color, Pattern, Cap, Size, Gage, Etc.	Height	Height at Tub	Height at Shower
Wainscot	Bath	Ceramic Tile	4'-0"	6'-0"	

Bathroom accessories: ☐ Recessed; material ..... ; number ..... ; ☒ attached; material Ceramic ; number 6

22. PLUMBING:

Fixture	Number	Location	Make	Mfr's Fixture Identification No.	Size	Color
Sink	1	Kitchen	Elkay	LWR-2522-R	25" x22"	S.Steel
Lavatory	2	Baths	Rheem	G-105	20" x 20"	White
Water closet	3	Baths	Rheem	G-3000	27-1/8"x21-7/8"	White
Bathtub	2	Baths	Rheem	1034 Regency	30" x 60"	White
Shower over tub*	2	Baths	Rheem	D71060		Chrome
Stall shower**						
Laundry trays						

*☐ Curtain rod **☐ Door ☐ Curtain rod

Water supply: ☒ Public; ☐ community system; ☐ individual (private) system. ★

Sewage disposal: ☒ Public; ☐ community system; ☐ individual (private) system. ★

★*Show and describe individual system in complete detail in separate drawings and specifications according to requirements.*

House drain (inside): ☒ Cast iron; ☐ tile; ☐ other ..... House sewer (outside): ☒ Cast iron; ☐ tile; ☐ other .....

Water piping: ☐ Galvanized steel; ☒ copper tubing; ☐ other ..... Sill cocks, number 3

Domestic water heater: Type Gas ; make and model Coleman #33384 ; capacity 40 gallons.

recovery 35.3 gph. 100° rise. Storage tank: Material Glass lined

Gas service: ☒ Utility company; ☐ liq. pet. gas; ☐ other ..... Gas piping: ☒ Cooking; ☒ house heating.

Footing drains connected to: ☐ Storm sewer; ☐ sanitary sewer; ☐ dry well. Sump pump .....

23. HEATING:

☐ Hot water. ☐ Steam. ☐ Vapor. ☐ One-pipe system. ☐ Two-pipe system.

☐ Radiators. ☐ Convectors. ☐ Baseboard radiation. Make and model .....

Radiant panel: ☐ Floor; ☐ wall; ☐ ceiling. Panel coil: Material ..... ; capacity ..... sym.

☐ Circulator. ☐ Return pump. Make and model ..... Output ..... Btuh.; net rating ..... Btuh.

Boiler: Make and model .....

Warm air: ☐ Gravity. ☒ Forced. Type of system N. Gas

Duct material: Supply G. I. ; return G. I. Insulation ..... thickness ..... ☒ Outside air intake.

Furnace: Make and model Carrier - 58G160VG Input 135000 Btuh.; output 108000 Btuh.

1180 CFM - 85° Rise 24-1/8"x 28" x 56" high. 1/3 H.P. Motor

☐ Space heater; ☐ floor furnace; ☐ wall heater. Input ..... Btuh.; output ..... Btuh.; number units .....

Make, model .....

Controls: Make and type Minneapolis-Honeywell, fully automatic

Fuel: ☐ Coal; ☐ oil; ☒ gas; ☐ liq. pet. gas; ☐ electric; ☐ other ..... ; storage capacity .....

Firing equipment furnished separately: ☐ Gas burner, conversion type. Stoker: ☐ Hopper feed; ☐ bin feed.

Oil burner: ☐ Pressure atomizing; ☐ vaporizing

Make and model ..... Control .....

Electric heating system: Type ..... Input ..... watts; @ ..... volts; output ..... Btuh.

Ventilating equipment: Attic fan, make and model Hunter FA 16 21" x 21" ; capacity 1750 cfm.

Kitchen exhaust fan, make and model Thermador #H70, 36" Hood

Other heating, ventilating, or cooling equipment .....

24. ELECTRIC WIRING:

Service: ☒ Overhead; ☐ underground. Panel: ☐ Fuse box; ☐ circuit-breaker 150 Amp. Service Number circuits 10

Wiring: ☐ Conduit; ☐ armored cable; ☒ nonmetallic cable; ☐ knob and tube; ☐ other .....

Special outlets: ☒ Range; ☐ water heater; ☐ other .....

☒ Doorbell. ☐ Chimes. Push-button locations Front door, rear door

25. LIGHTING FIXTURES:

Total number of fixtures 16 Total allowance for fixtures, typical installation, $400.00

Nontypical installation .....

DESCRIPTION OF MATERIALS

DESCRIPTION OF MATERIALS

26. INSULATION:

Location	Thickness	Material, Type, and Method of Installation	Vapor Barrier
Roof			
Ceiling	4"	Rock wool, blanket. Stapled between frame	Foil
Wall	3"	Rock wool, blanket. Stapled between frame	Foil
Floor	3"	Rock wool, blanket. Stapled between frame	Foil

27. MISCELLANEOUS:

(Describe any main dwelling materials, equipment, or construction items not shown elsewhere):

Mill made stairs: Morgan, Rail #720, Balaster #777, Newel Post #895, Turnout #723, Starting Step #779 T-R.

Fireplace: Donley Damper #243

Copper weather vane vent above carport

HARDWARE: *(Make, material, and finish)* Schlage - "A" series, Plymouth type - Bronze
Baths -- Chrome - Bronze A40S, Interior - A40S
Front and Rear Exit -- A50PD

SPECIAL EQUIPMENT: *(State material or make and model.)*

Venetian blinds ..... Number .....
Kitchen range Range top - Hotpoint #RRG (V) 822
Refrigerator .....
Dishwasher Hotpoint - SRV - 80
Garbage disposal unit .....
Automatic washer .....
Clothes drier .....
Other Oven - Whirlpool, 24" - #RRG (V) 155

PORCHES:

TERRACES: 7'- 6" x 9' - 4" Rear. Conc Base, Brick Surface

GARAGES: Carport - Conc. slab floor, ground supported, pierced brick screen wall w/ 8" x 8" solid brick pilaster, drywall ceiling

WALKS AND DRIVEWAYS:

Driveway: Width 10'-0" Base material gravel; thickness 6". Surfacing material concrete; thickness 4"
Front walk: Width 4' Material Conc.; thickness 4". Service walk: Width 3' Material Conc.; thickness 4"
Steps: Material ....; treads ....". risers ....". Cheek walls ....

OTHER ONSITE IMPROVEMENTS:

(Specify all exterior onsite improvements not described elsewhere, including items such as unusual grading, drainage structures, retaining walls, fence, railings, and accessory structures.)

LANDSCAPING, PLANTING, AND FINISH GRADING:

Topsoil 2" thick: ☒ Front yard; ☒ side yards; ☒ rear yard to 30'-0" feet behind main building.
Lawns *(seeded, sodded, or sprigged)*: ☒ Front yard seeded; ☒ side yards seeded; ☒ rear yard seeded
Planting: ☐ As specified and shown on drawings; ☒ as follows:

	Shade trees, deciduous,	" caliper.		Evergreen trees,	' to ', B & B.
3	Low flowering trees, deciduous,	4 ' to 6 '	18	Evergreen shrubs,	1 ' to 2 ', B & B.
	High-growing shrubs, deciduous,	' to '		Vines, 2-year	
	Medium-growing shrubs, deciduous,	' to '			
	Low-growing shrubs, deciduous,	' to '			

IDENTIFICATION.—This exhibit shall be identified by the signature of the builder, or sponsor, and/or the proposed mortgagor if the latter is known at the time of application.

Date ..... Signature .....

Signature .....

VA Form VB4–1852
FHA Form 2005

U. S. GOVERNMENT PRINTING OFFICE : 1961 O-619988

Military Directives

1. Design Directives

2. Construction Directives

Set of Drawings

1. Title Page

2. Index of Drawings

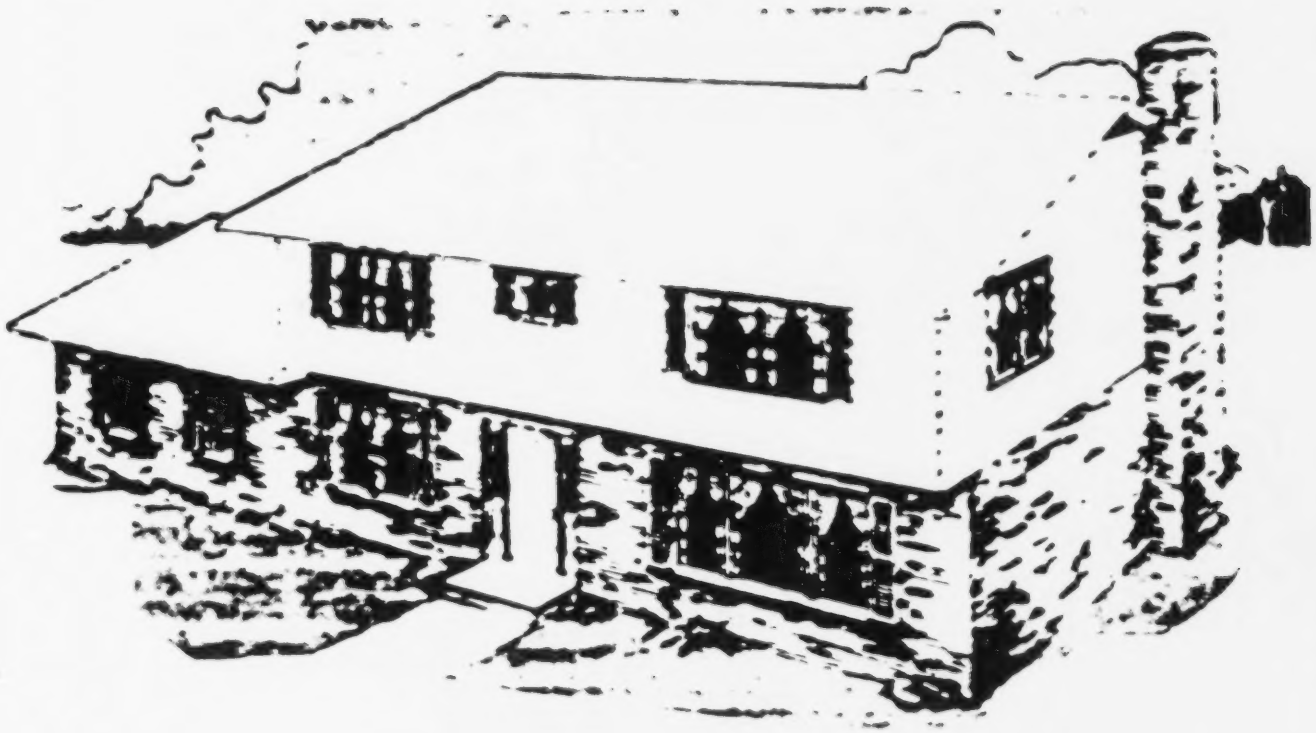
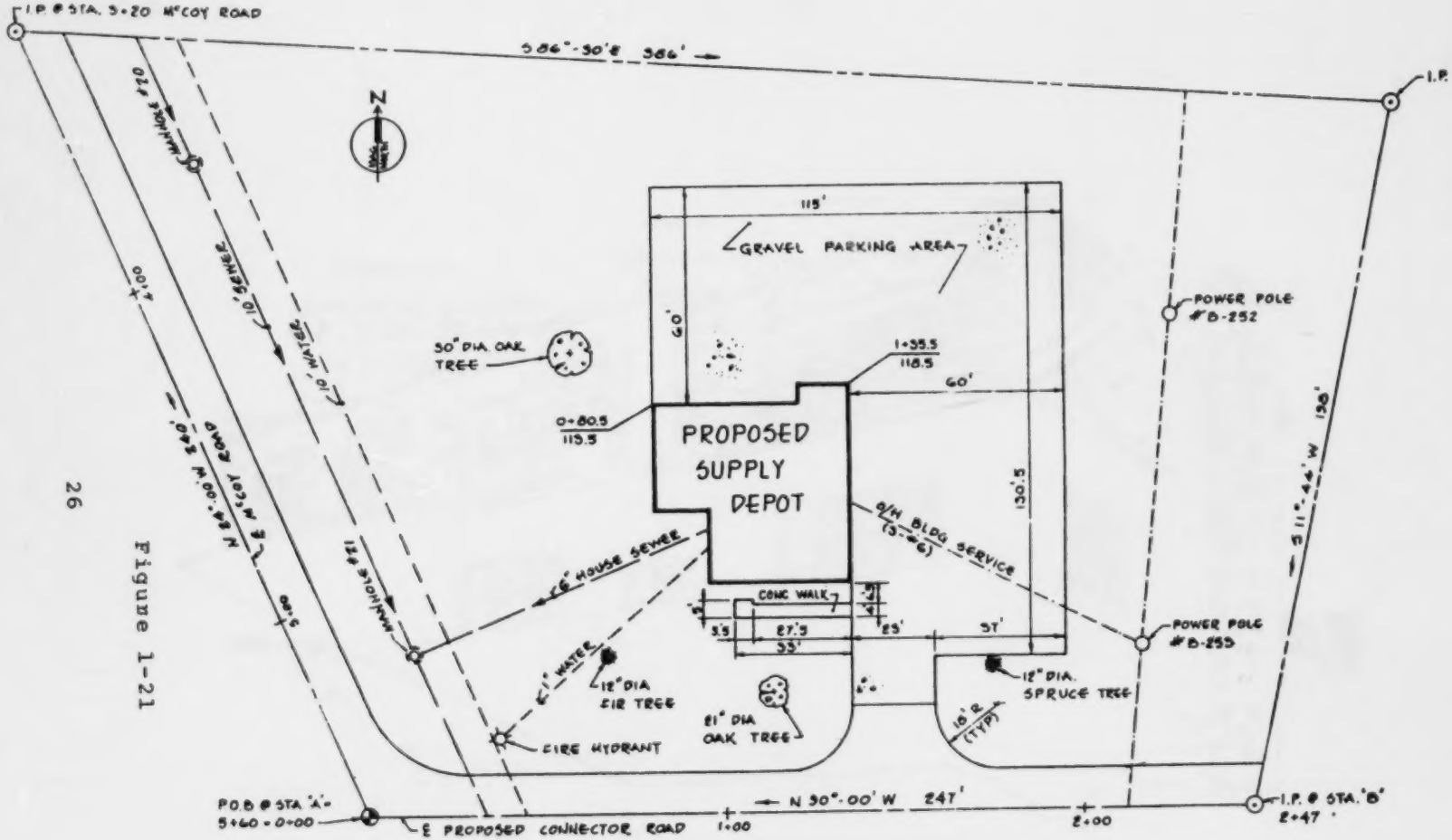


Figure 1-20 Perspective view of Colonial Home



PLOT PLAN

PHASE I - PROPOSED SUPPLY DEPOT

SCALE : N.T.S.

Figure 1-21

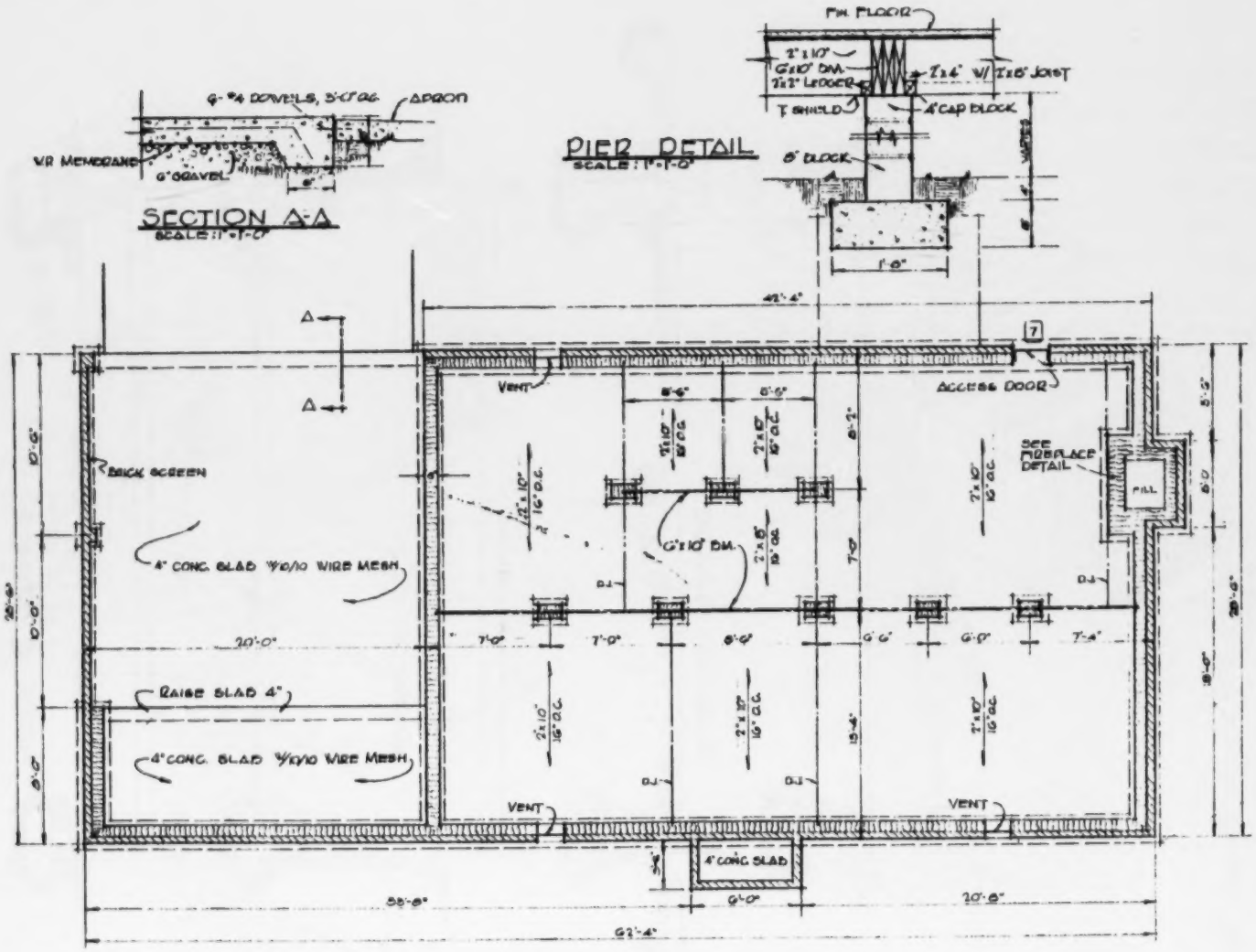

SECTION A-A
SCALE: 1"=1'-0"
PIER DETAIL
SCALE: 1"=1'-0"
FOUNDATION PLAN
SCALE: 1/4"=1'-0"
BRICK SCREEN
4" CONC. SLAB W/6/10 WIRE MESH
RAISE SLAB 4"
VENT
ACCESS DOOR
SEE FIREPLACE DETAIL
4" CONC. SLAB
8" BLOCK
4" CAP BLOCK
1'-0"
20'-0"
55'-8"
62'-4"

Figure 1-22

Examples of different Foundations

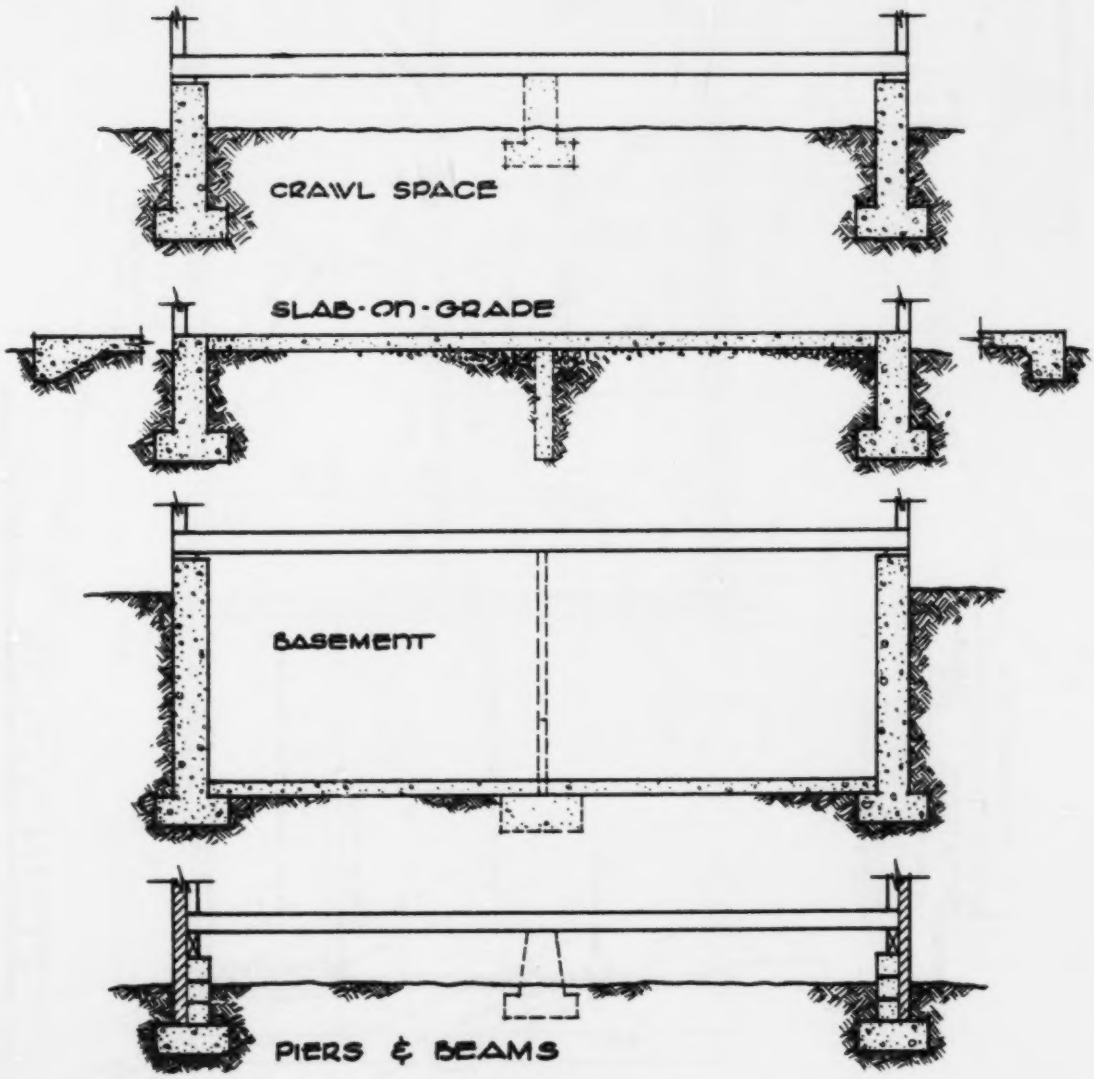
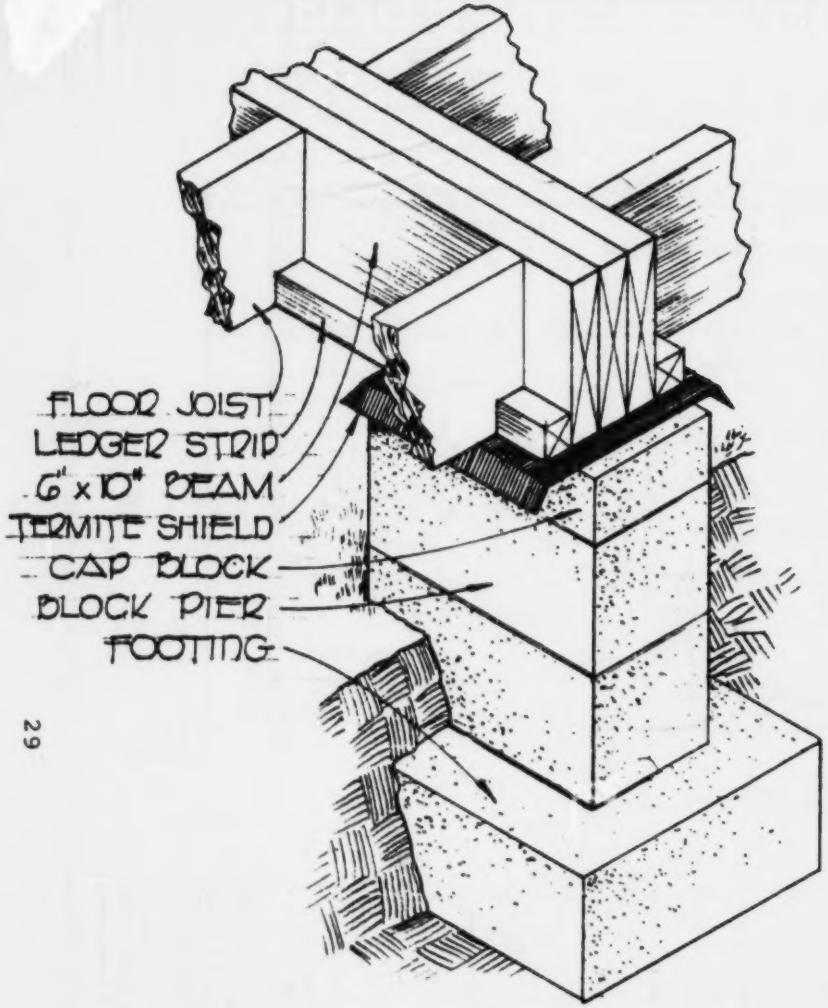
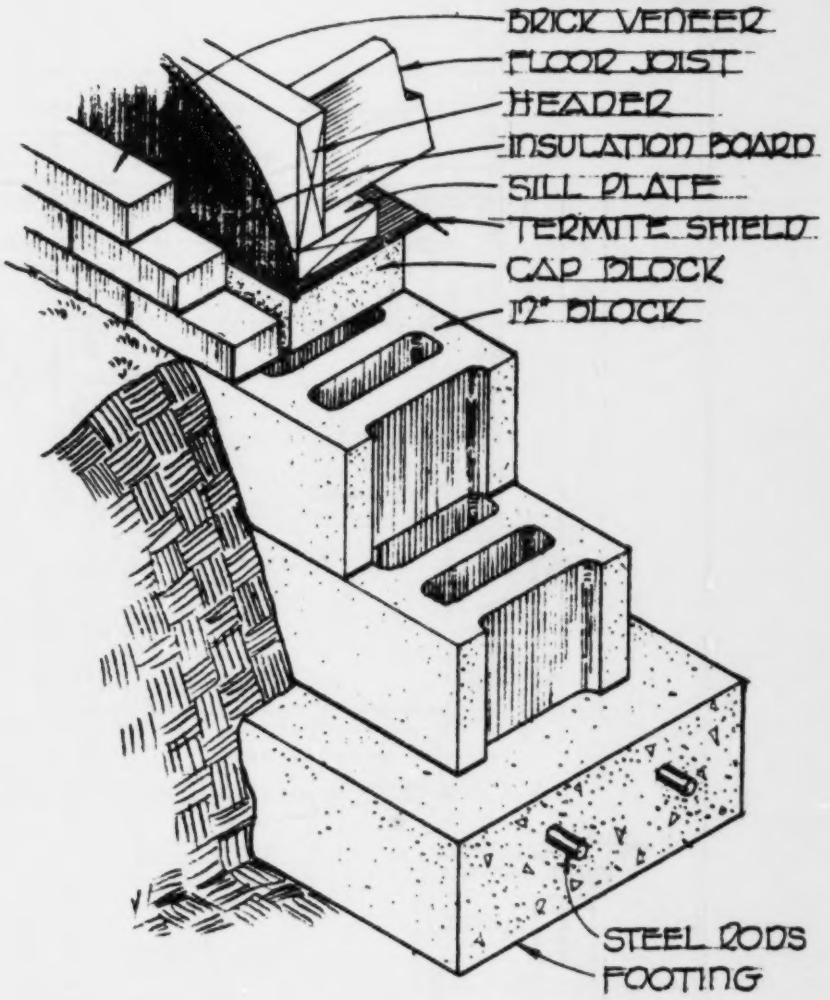


Figure 1-23



Pier construction

Figure 1-24



Foundation construction

Figure 1-25

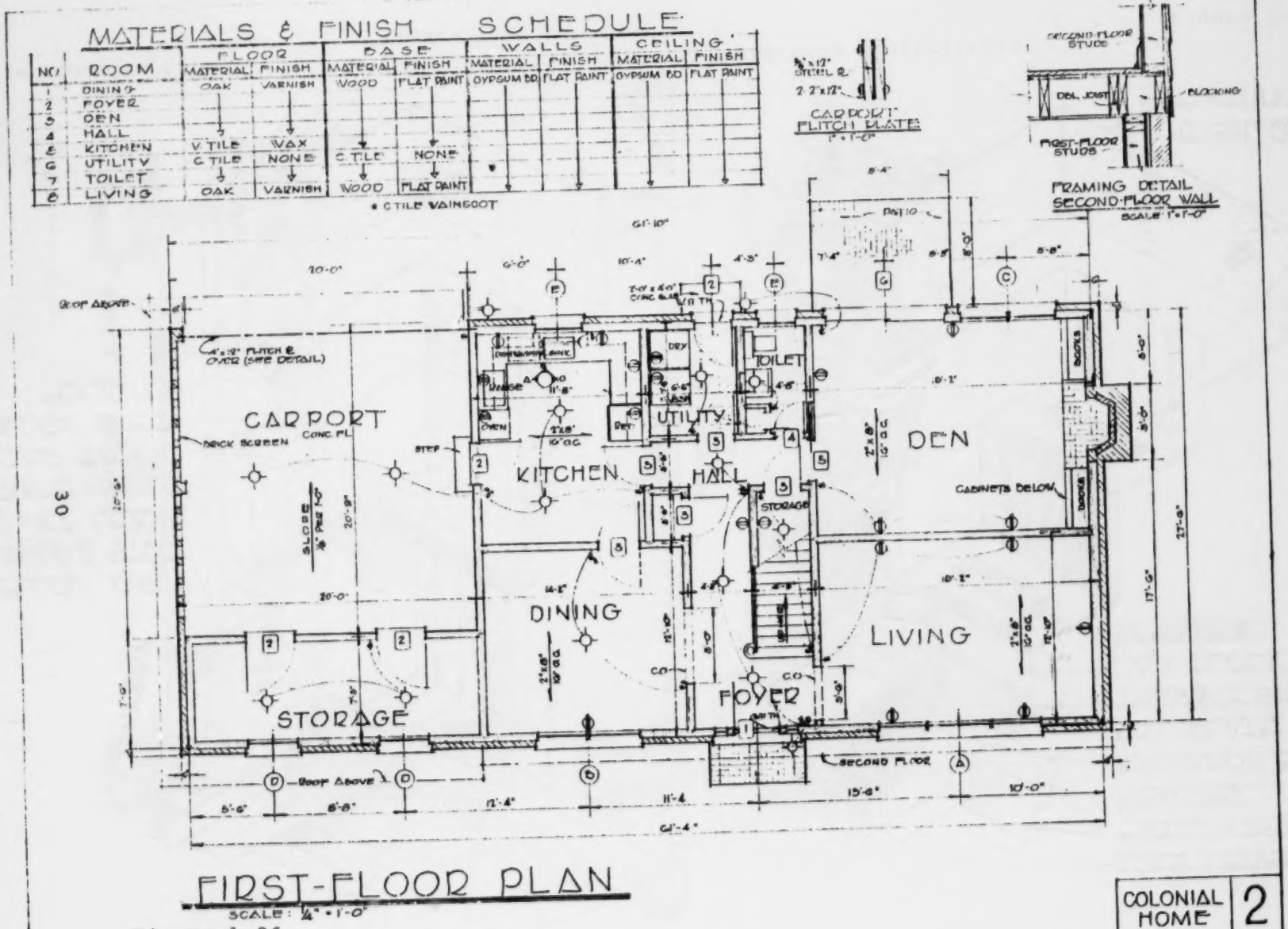

MATERIALS & FINISH SCHEDULE
NO | ROOM | FLOOR MATERIAL | FLOOR FINISH | BASE MATERIAL | BASE FINISH | WALLS MATERIAL | WALLS FINISH | CEILING MATERIAL | CEILING FINISH
1 DINING OAK VARNISH WOOD FLAT PAINT GYPSUM BD FLAT PAINT GYPSUM BD FLAT PAINT
2 FOYER
3 DEN
4 HALL
5 KITCHEN V TILE WAX
6 UTILITY C TILE NONE C TILE NONE
7 TOILET
8 LIVING OAK VARNISH WOOD FLAT PAINT
* C TILE WAINSCOT
CARPORT FLITCH PLATE
FRAMING DETAIL SECOND-FLOOR WALL
CARPORT
DECK SCREEN
CONC. FL
KITCHEN
HALL
UTILITY
TOILET
DEN
DINING
LIVING
FOYER
STORAGE
ROOF ABOVE
SECOND FLOOR
FIRST-FLOOR PLAN
SCALE: 1/4" = 1'-0"
COLONIAL HOME 2

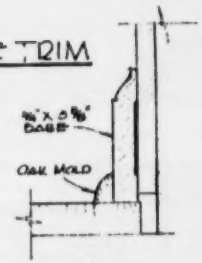
Figure 1-26

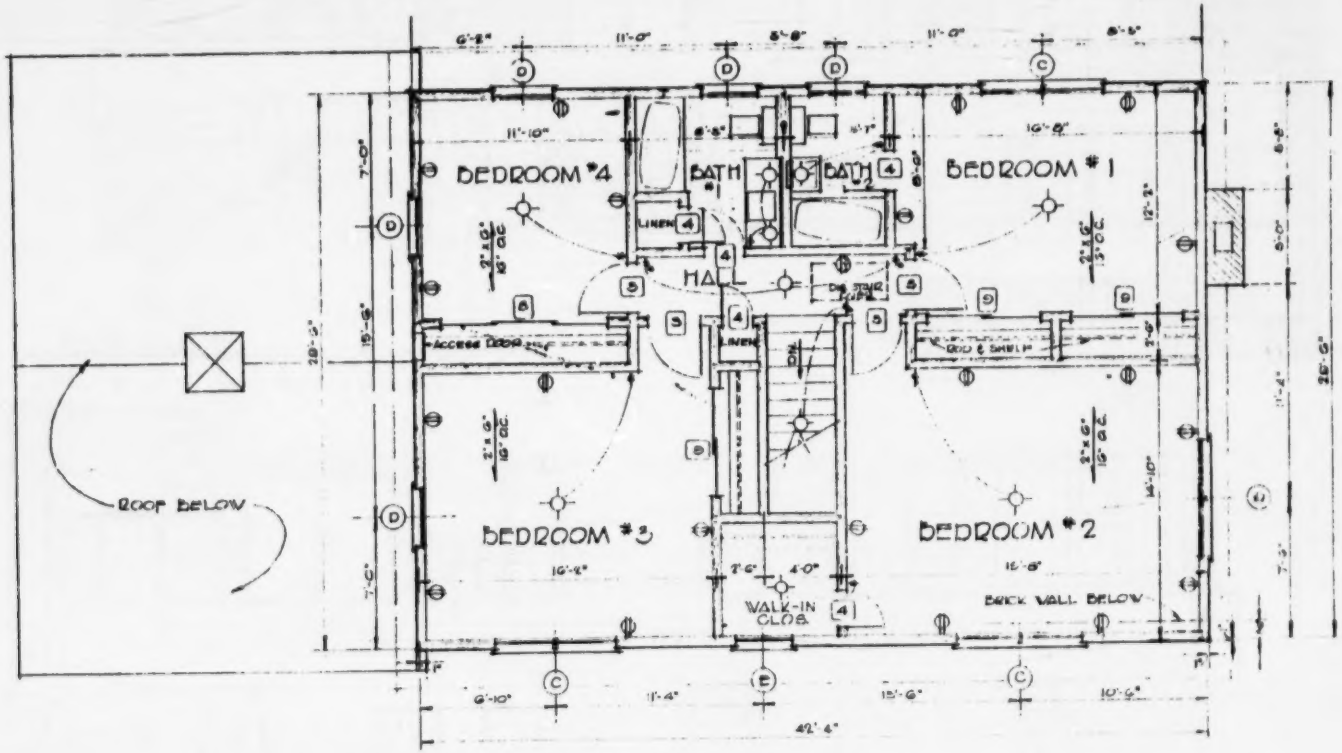
MATERIALS & FINISH SCHEDULE

NO	ROOM	FLOOR		BASE		WALLS		CEILING	
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH
1	BEDROOM #1	OAK	VARNISH	WOOD	FLAT PAINT	GYPSUM BD	FLAT PAINT	GYPSUM BD	FLAT PAINT
2	BEDROOM #2								
3	BEDROOM #3								
4	BEDROOM #4								
5	CLOSETS								
6	HALL								
7	BATH #1	CER. TILE	NONE	CER. TILE	NONE	*			
8	BATH #2								

* CER. TILE WAINSCOT

BASE TRIM



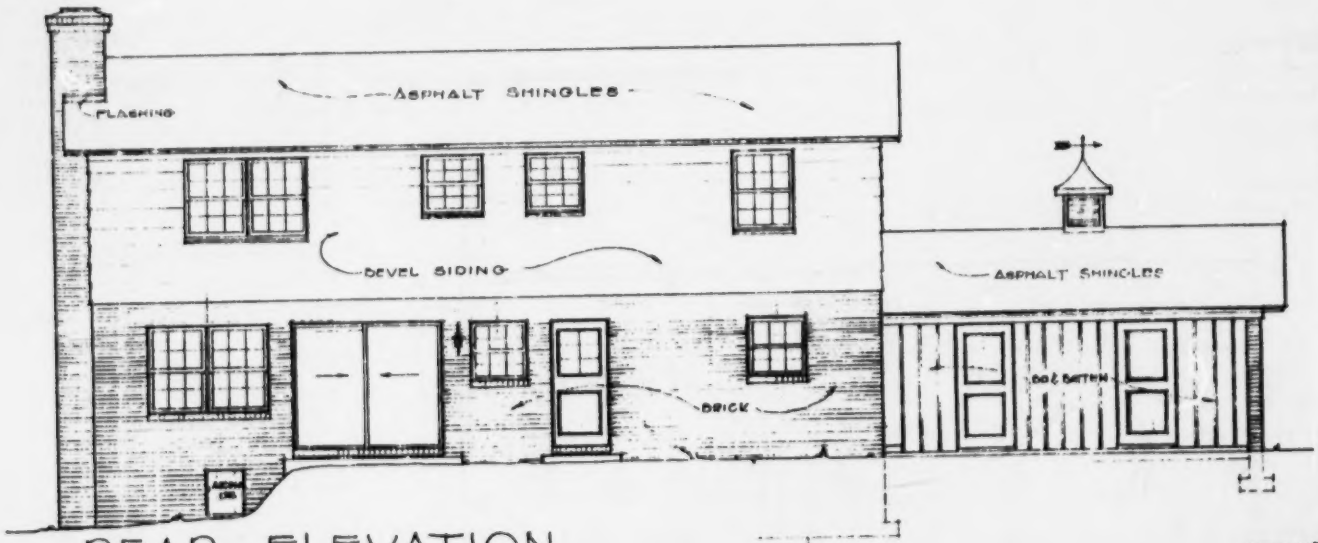


SECOND-FLOOR PLAN

SCALE: 1/4" = 1'-0"

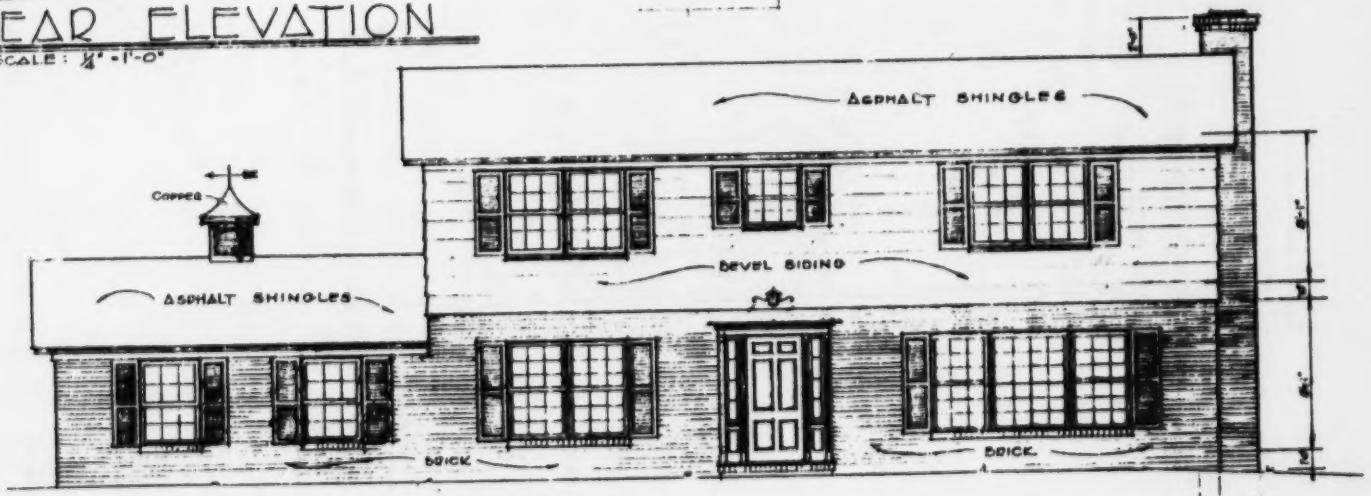
Figure 1-27

COLONIAL HOME 3



REAR ELEVATION

SCALE: 1/4" = 1'-0"



FRONT ELEVATION

SCALE: 1/4" = 1'-0"

COLONIAL HOME 4

32

Figure 1-28

DOOR SCHEDULE

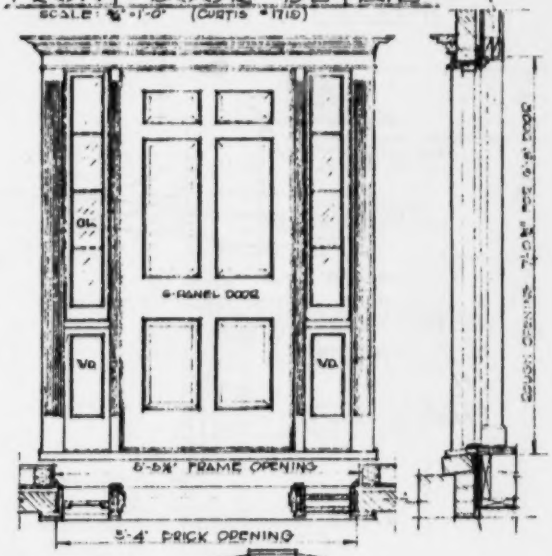
MARK	SIZE	TYPE	REMARKS
1	3'-0" x 6'-8" x 1 3/8"	6 PANEL	SEE DETAIL
2	2'-6" x 6'-8" x 1 3/8"	2 "	EXTERIOR GD. - DINE
3	2'-6" x 6'-8" x 1 3/8"	2 "	INTERIOR GD. - "
4	2'-0" x 6'-8" x 1 3/8"	2 "	" " "
5	2'-6" x 6'-8" x 1 3/8"	2 "	POCKET - "
6	8'-0" x 6'-8"	SLIDING	ALUM. FRAME - EMP. GL.
7	2'-0" x 2'-4" x 3/4"	ACCESS	EXT. PLYWOOD
8	8'-0", 6'-0"	SLIDING	3 DR. CLOS. UNIT
9	6'-0" x 6'-8"	"	2 DR. " "

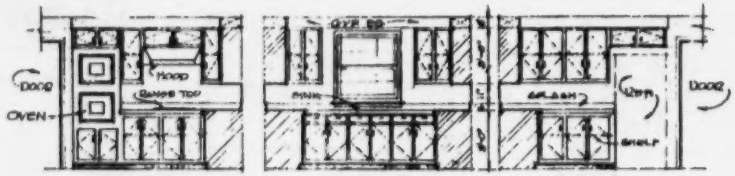
WINDOW SCHEDULE

MARK	SIZE	TYPE	REMARKS
A	10'-3" x 5'-2"	DH-FIXED	WOOD - 6 LT. SASH
B	5'-4" x 5'-2" DBL	D.H.	" " "
C	5'-4" x 4'-8" "	"	" " "
D	5'-4" x 4'-8"	"	" " "
E	5'-4" x 5'-2"	"	" " "

FRONT DOOR DETAIL

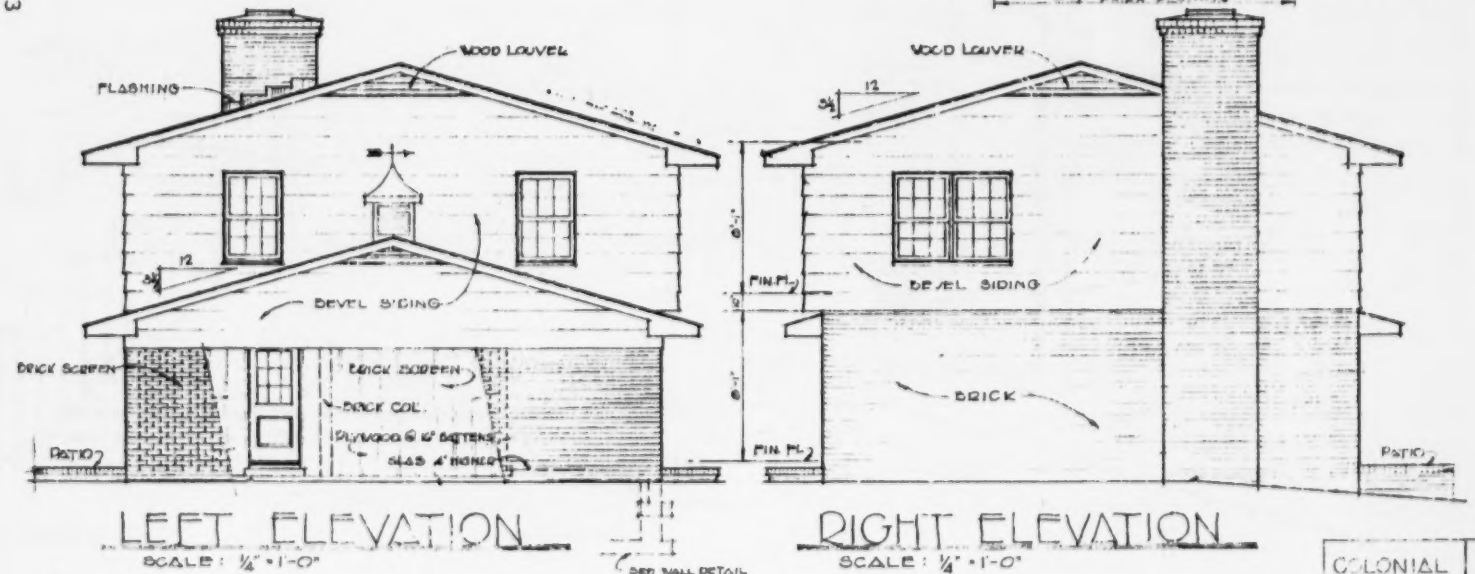
SCALE: 3/4" = 1'-0" (CURTIS #1110)





KITCHEN ELEVATIONS

SCALE: 1/4" = 1'-0"



LEFT ELEVATION

SCALE: 1/4" = 1'-0"

SEE WALL DETAIL

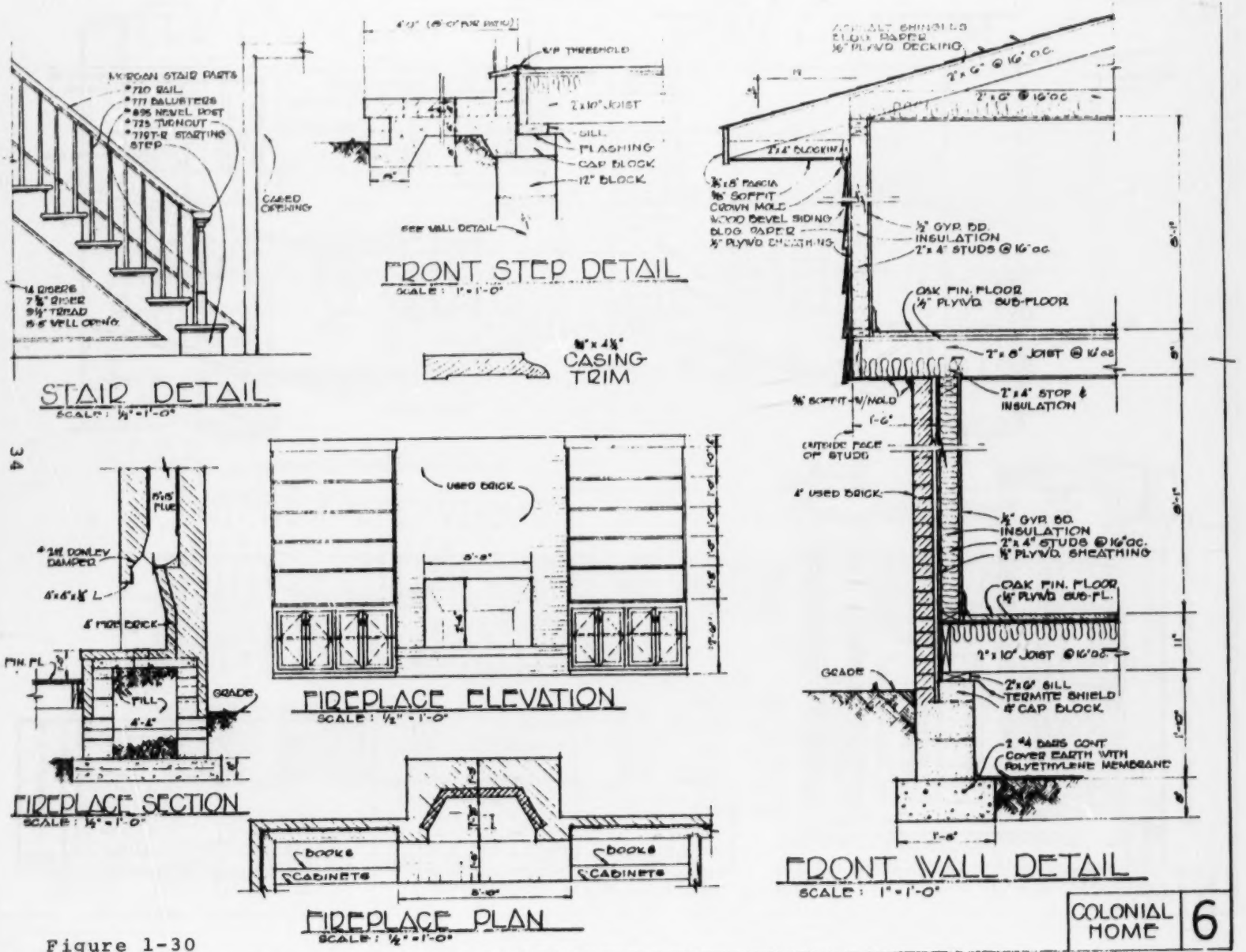
RIGHT ELEVATION

SCALE: 1/4" = 1'-0"

33

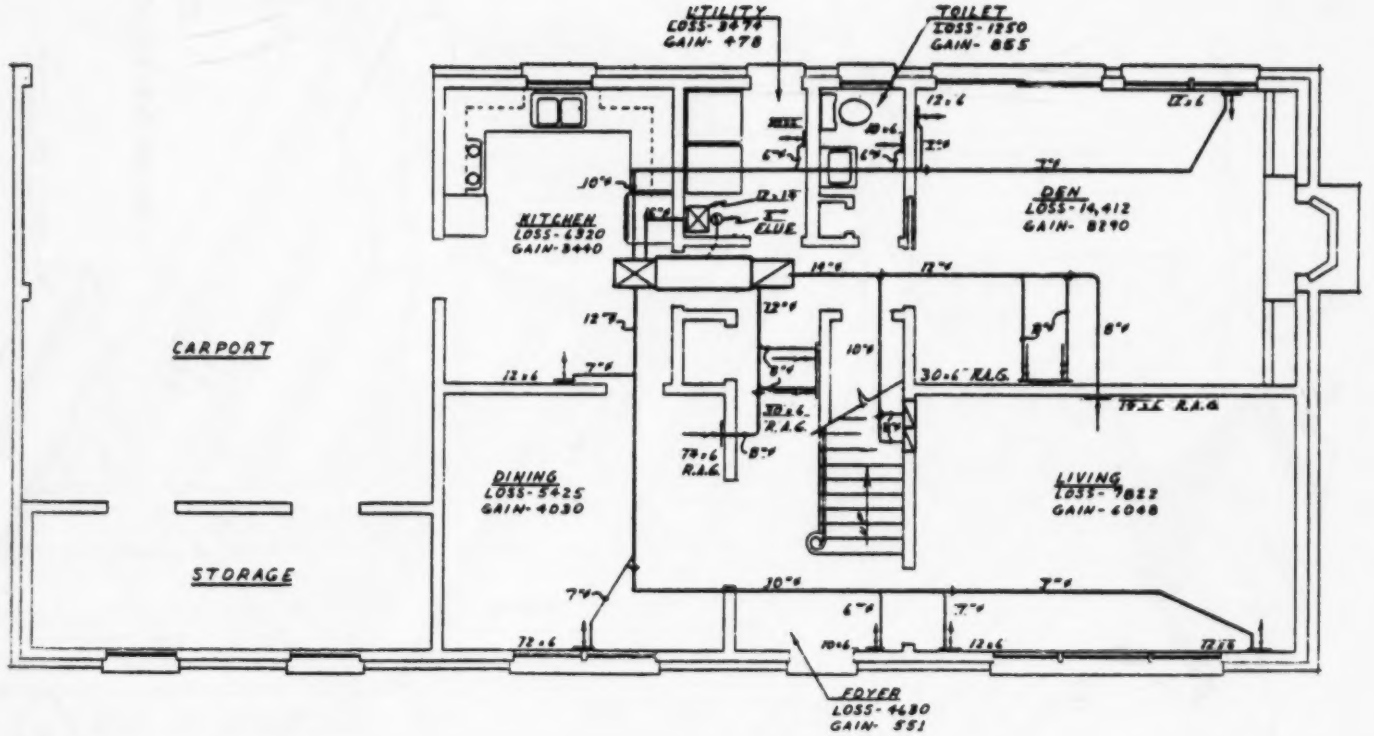
Figure 1-29

COLONIAL HOME 5



COLONIAL HOME 6

Figure 1-30



FIRST-FLOOR
HEATING-COOLING PLAN

SCALE: ¼" = 1'-0"

Figure 1-31

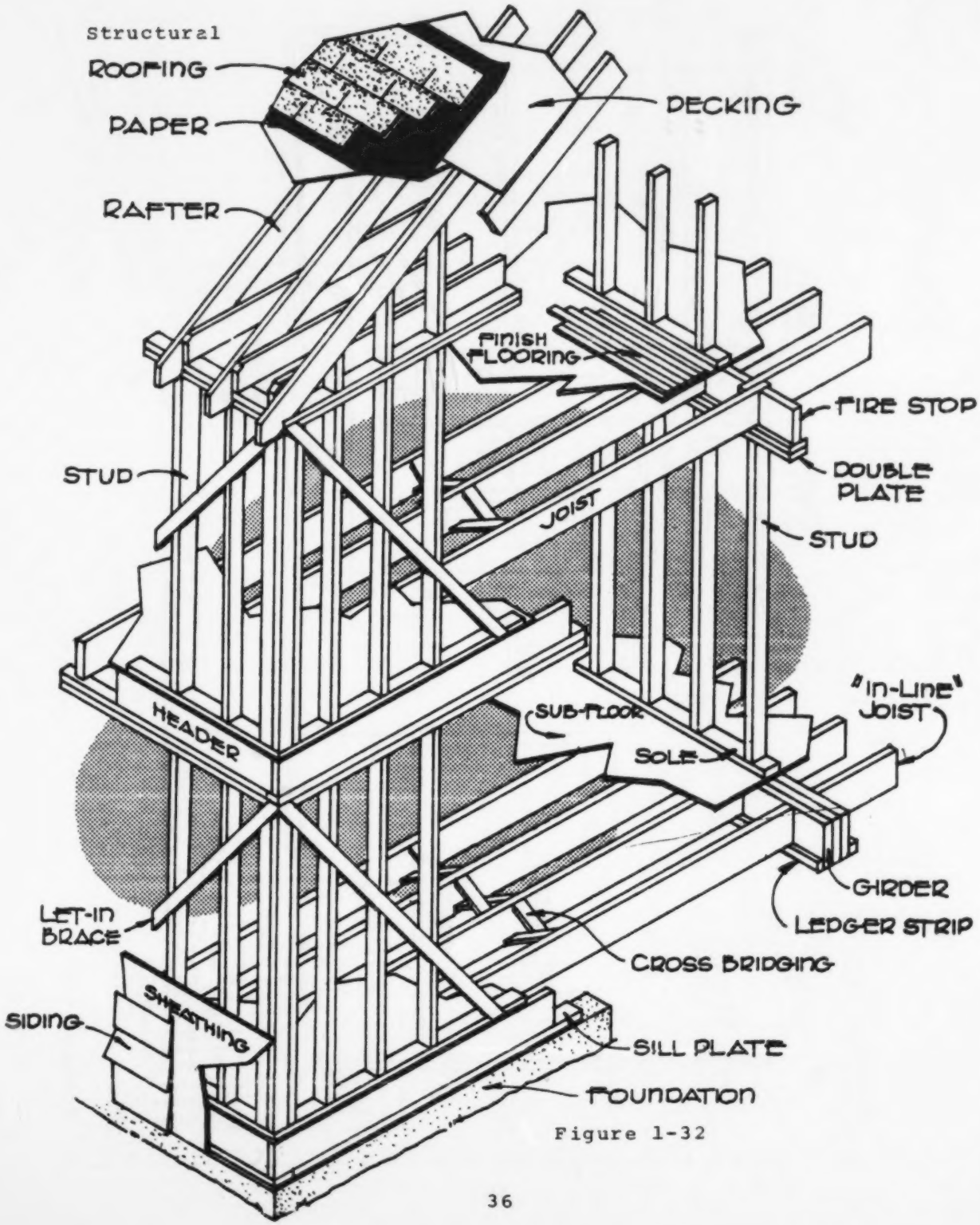

Structural
ROOFING
PAPER
RAFTER
DECKING
FINISH FLOORING
FIRE STOP
DOUBLE PLATE
STUD
JOIST
STUD
"IN-LINE" JOIST
SUB-FLOOR
SOLE
HEADER
GIRDER
LEDGER STRIP
LET-IN BRACE
CROSS BRIDGING
SHEATHING
SIDING
SILL PLATE
FOUNDATION

Figure 1-32

Estimating

1. Schedules:

2. Contractors:

Construction

1. Shop Drawings:

2. Change Orders:

A. Field Changes:

B. Design Changes:

3. As-Builts:

Roads

Profiles

Top

Crossectionals

Profile:

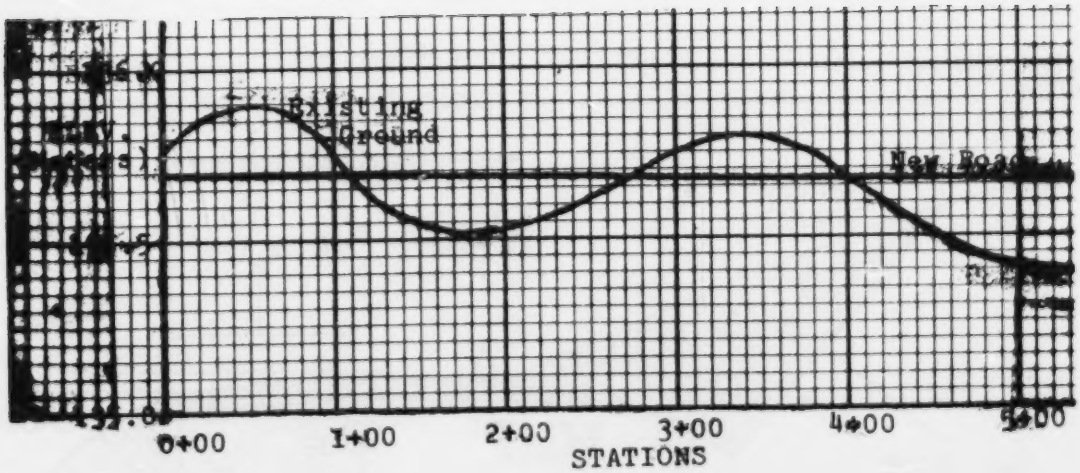


Figure 1-33

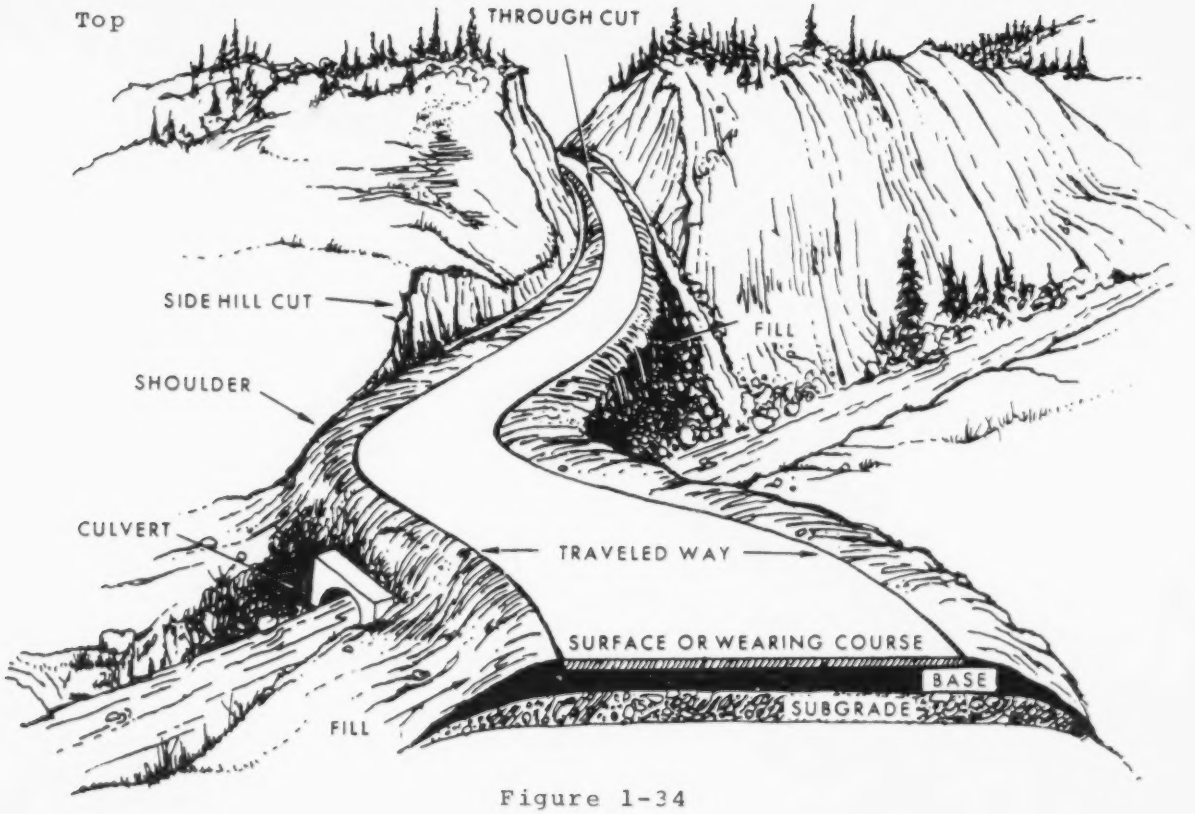
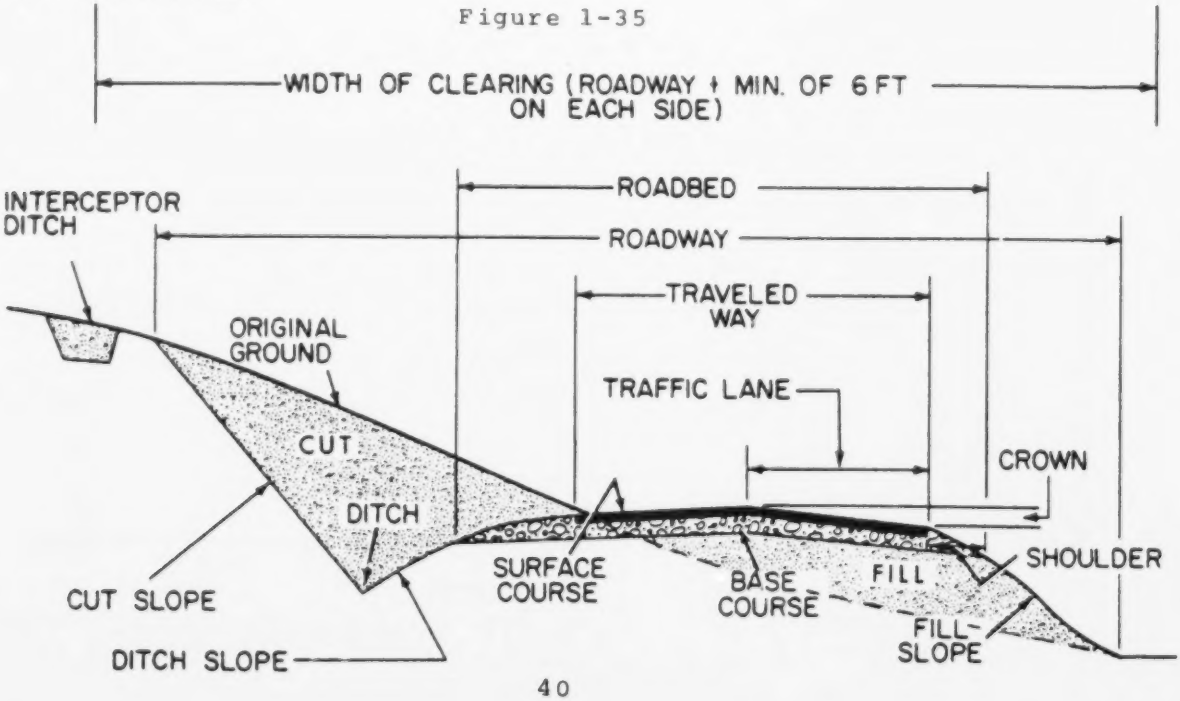


Figure 1-34

Crossectionals

Figure 1-35



Notes:

Typical Airfield drawing

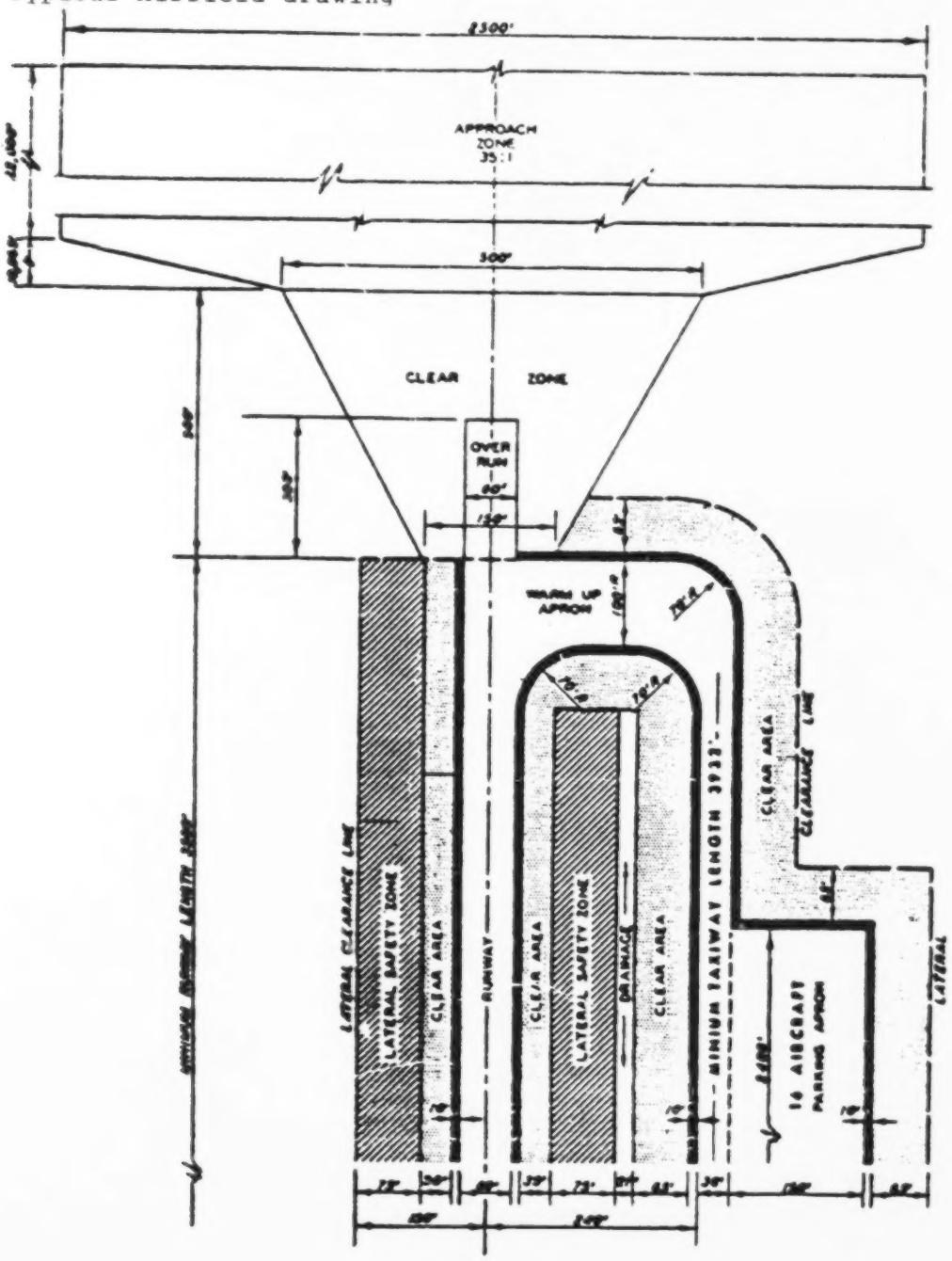


Figure 1-36

Identifying Elements:

Title Block

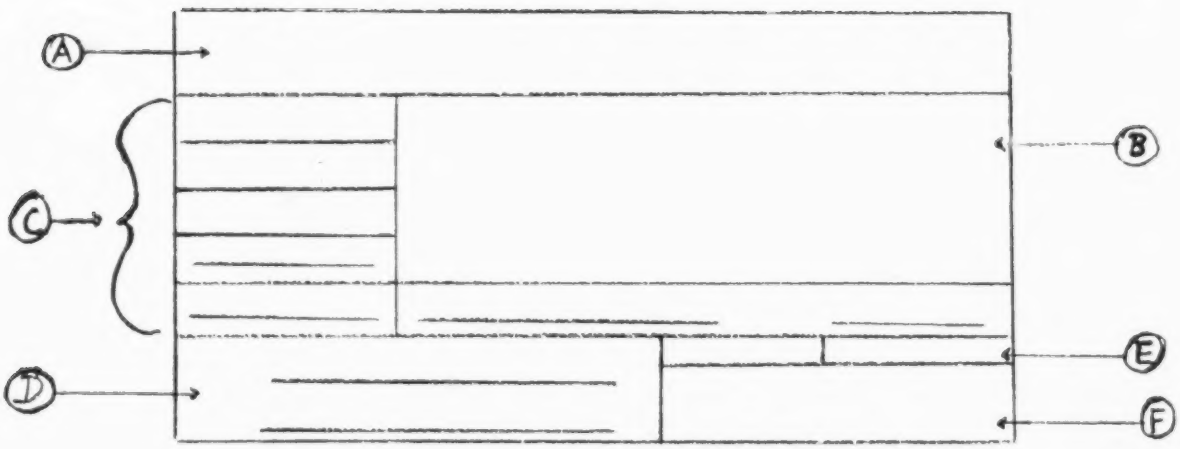


Figure 1-37

A:

B:

C:

D:

E:

F:

Key Plan:

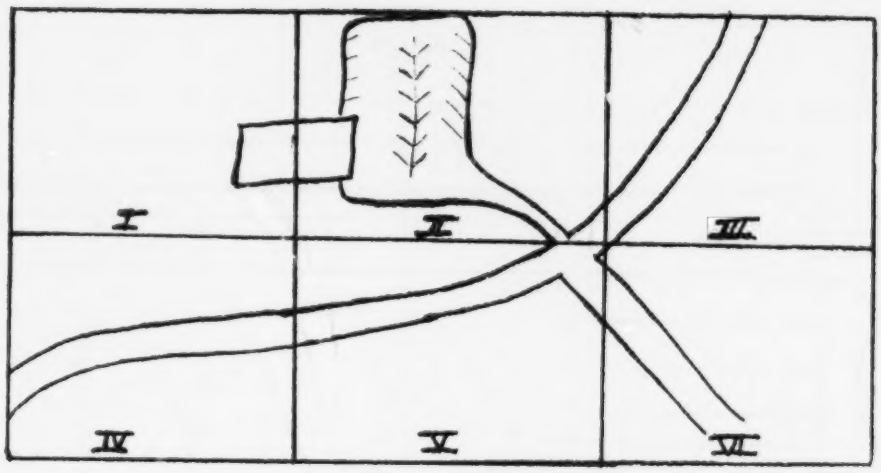


Figure 1-38

Schedule of Drawings:

SCHEDULE OF DRAWINGS

DRAWING #	DESCRIPTION	SHEET #

Figure 1-39

Revision Block:

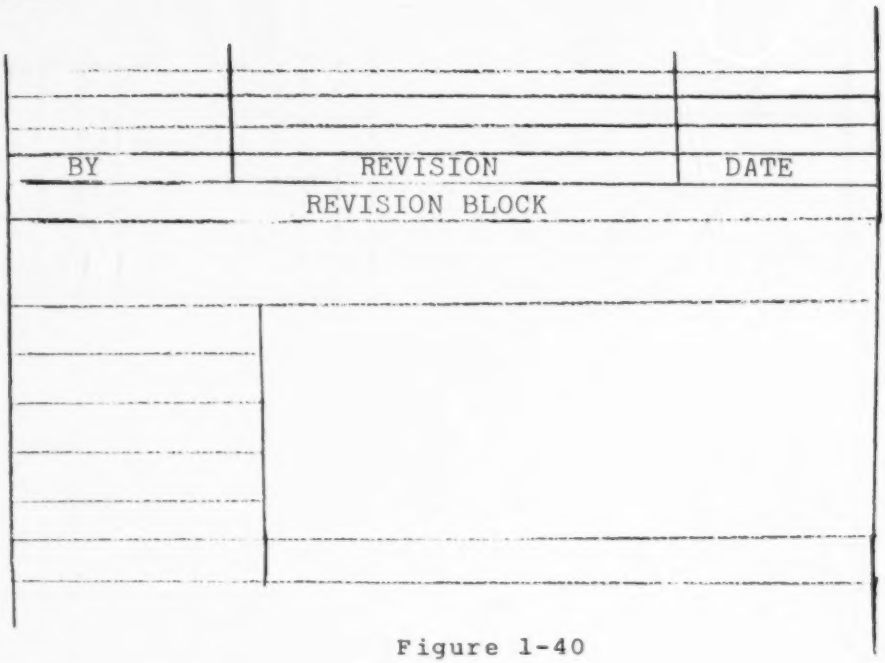


Figure 1-40

Summary- Four Identifying Elements:

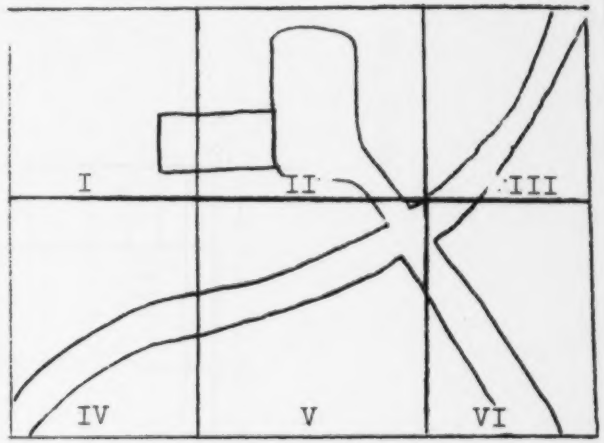
1.

2.

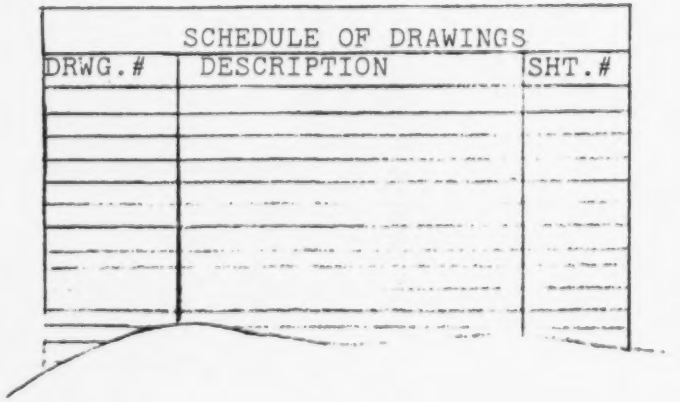
3.

4.

When all four elements are used in conjunction, the drawing may look similar to this:



KEY PLAN



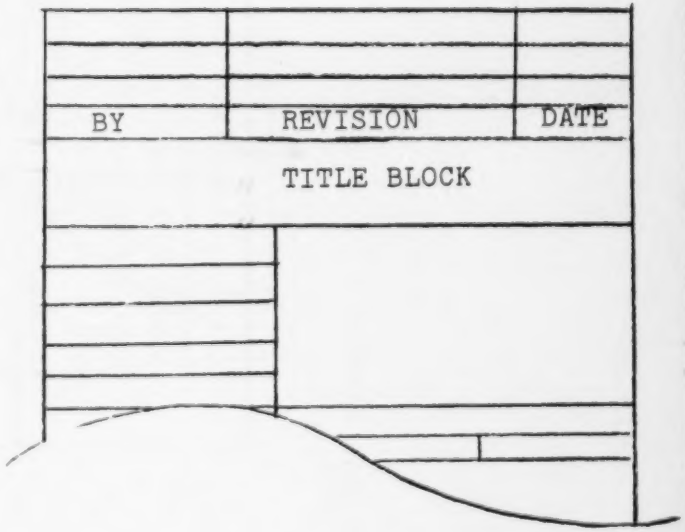


Figure 1-41

NOTES:

NOTES: